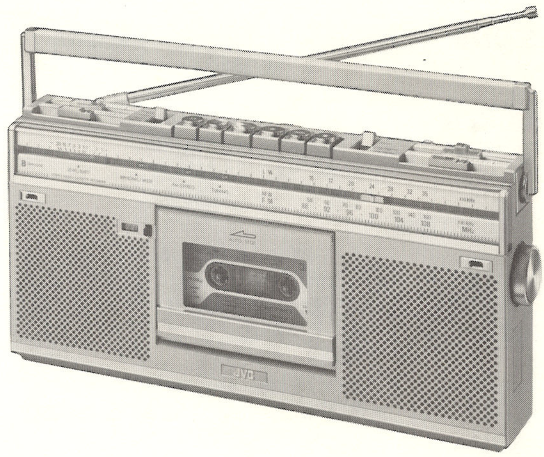
JVC

SERVICE MANUAL

MODEL
RC-S5L/LB

BIPHONIC

FM-MW-LW
3-BAND RADIO
STEREO CASSETTE
RECORDER



No. 1403
September 1979

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Specifications

DIMENSIONS: 15.2cm(H) x 31.0cm(W) x 6.4cm(D)
6″ x 12-1/4″ x 2-1/2″

TUNER SECTION	
Frequency Ranges	: FM 88 ~ 108MHz MW 540 ~ 1600kHz LW 150 ~ 350kHz
RECORDER SECTION	
Tape Speed	: 4.8 cm/s (1-7/8 ips)
Track System	: 4-track 2-channel stereo
Recording System	: AC Bias
Erasing System	: AC Erasing
S/N Ratio	: 40dB at 1kHz
Fast Forward Time	: Within 125 sec. (C-60 cassette)
Rewinding Time	: Within 125 sec. (C-60 cassette)
Wow & Flutter	: 0.2% (WRMS)
AMPLIFIER SECTION	
Speaker	: 8 cm (3″) x 2, 3.2Ω
Power Output	: Max. 3.2W (1.6W + 1.6W) 2.6W (1.3W + 1.3W) at 10% THD

WEIGHT: Approx. 2.1 kg (with batteries)
4.6 lbs.

Input Jacks	: MIC x 2 (1.3mV, low imp.)
Output Jacks	: Ext. Speaker x 2 (3.2 ~ 8Ω) Headphones x 1 (8Ω)
POWER CONSUMPTION	: 10W (L), 9.5W (LB)
SEMICONDUCTORS	
ICs	: 6 + 2 (Microphone)
Transistors	: 1 FET + 11 + 2 (Motor Governor)
Diodes	: 12
POWER SOURCE	
DC	: 9V, 6 "R14" or "U5" cells, or equivalent
AC (AC Adaptor Pack)	: 110/220/240V, 50/60Hz

Main Parts Location

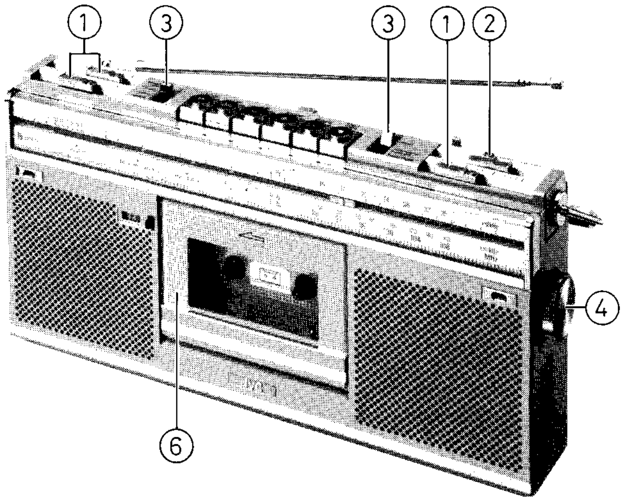


Fig. 1

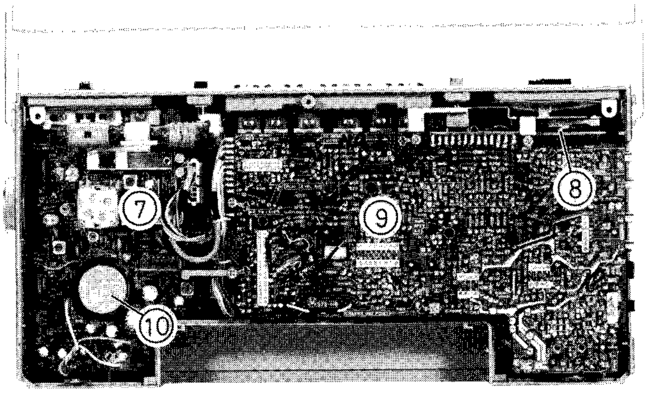


Fig. 2

Ref. No.	Parts No.	Parts Name	Description	Q'ty
1	*VXS4024-001	Knob	TONE, VOLUME, BALANCE	3
2	*VXS4029-001	〃	BAND	1
3	*VXQ4026-001	Lever Cab	MODE, FUNCTION	2
4	VXL4070-001	Knob	Tuning	1
5			Blank No.	
6	*ZCRCS5-CCA	Cassette Door Ass'y		1 set
7	*__________	Circuit Board Ass'y	Tuner	1 set
8	*__________	〃	Tone & Volume	1 set
9	*__________	〃	Amplifier	1 set
10	*EAS8P43S	Speaker	8 cm (3″), 3.2Ω	2

Note:

1. **Asterisked parts (*) show "NEW PARTS". Other parts are all "CURRENT PARTS"; therefore, check you inventory and order situation before placing new order to avoid making extra stock.**
2. **The circuit board assemblies and whole assembly of cassette mechanism in this model will not be available as spare parts.**
3. **The parts marked ⚠ are the important parts for safety assurance. Use the specified part, when replacing the safety assurance part, never use an equivalent one.**

Disassembly & Replacement

A. Rear Cabinet

1. Remove the battery pack or AC adaptor pack.
2. Remove 6 screws (1): SBSF3008R and (2)~(6): SDSP3006RS.
3. Disconnect 2 connectors: White wire from the rod antenna and black wire from the shield plate.

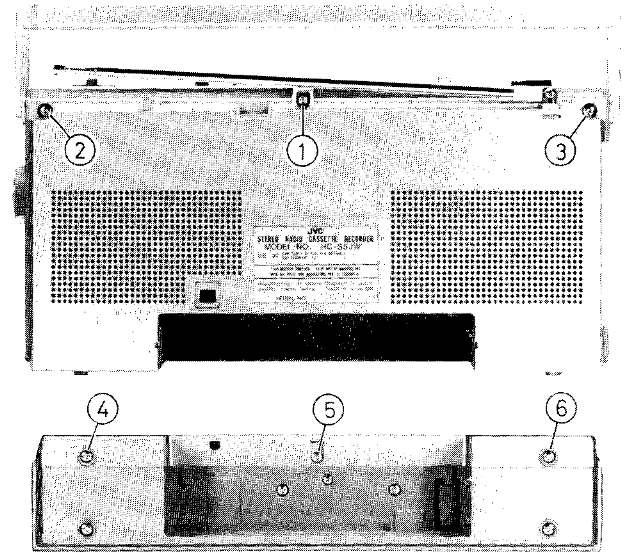


Fig. 3

Note: When mounting the rear cabinet on the front cabinet, engage the hole of MIC-L on the rear cabinet with the microphone jack of the amplifier circuit board. And then engage the other holes with the jacks by sliding the rear cabinet to the arrow direction as shown in Fig. 4.

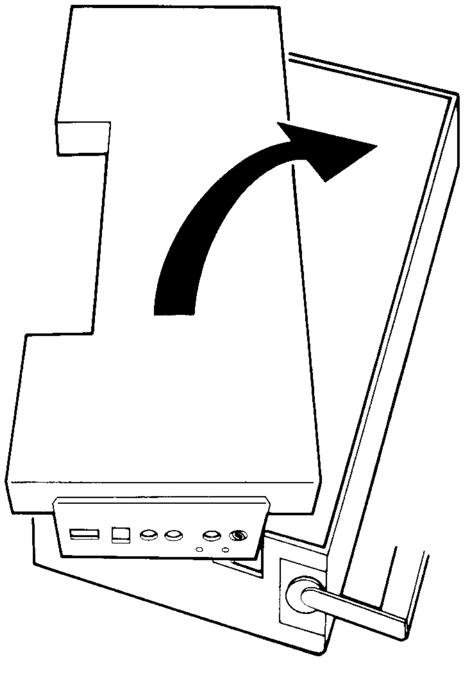


Fig. 4

B. Tuner Circuit Board

1. Set the tuning dial to the minimum frequency.
2. Take off the BAND and BALANCE knobs.
3. Disconnect the 8-pin connector (A), 3 connectors (B) ~ (D) (from the LED circuit board).
4. Remove 2 screws (7) & (8): SBSF3010C.

Note: Fit the arm of variable capacitor and the dial drum on the needle chassis when mounting the circuit board on the cabinet.
For details refer to page 11.

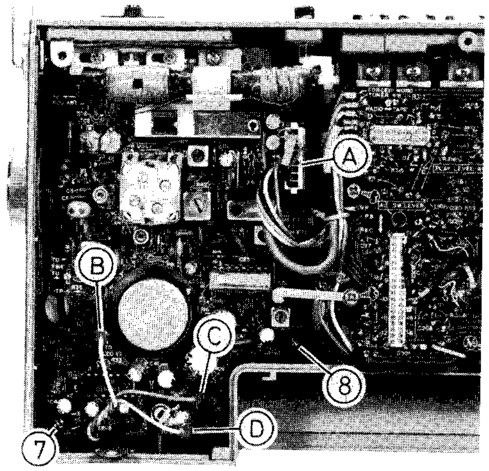


Fig. 5

C. Amplifier Section

1. Remove the tuner circuit board as following the previous item B.
2. Take off TONE and VOLUME control knobs.
3. Remove 4 screws (9) & (10): SBSF3010C and (11) & (12): SDSP3006RS.
4. Disconnect the 6-pin connector to the connector circuit board and the 7-pin connector from the headphone circuit board and 2 connectors (red and black wires) from the power supply section.

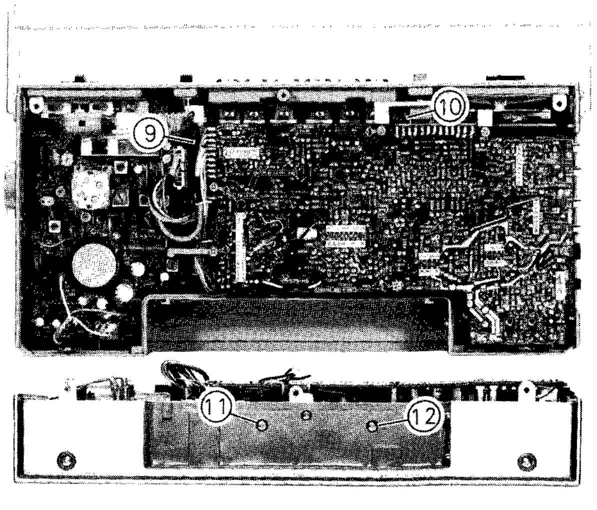


Fig. 6

D. Amplifier Circuit Board

1. Take off the amplifier Section out of the cabinet as following the previous item C.
2. Remove 4 screws (13)~(16): SPSP3008ZS.

Note: When mounting the circuit board on the mechanism engage the sliders of play-record switch (S301) and FUNCTION swtich (S302) with the levers of mechanism.

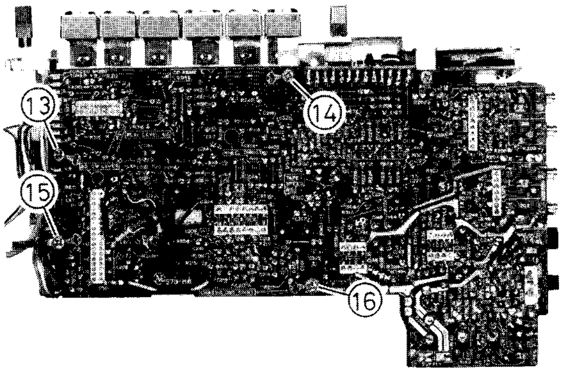


Fig. 7

E. Cassette Plate

1. Remove the amplifier section according to the previous item C.
2. Remove 2 screws (17) & (18): SSSP2005R.

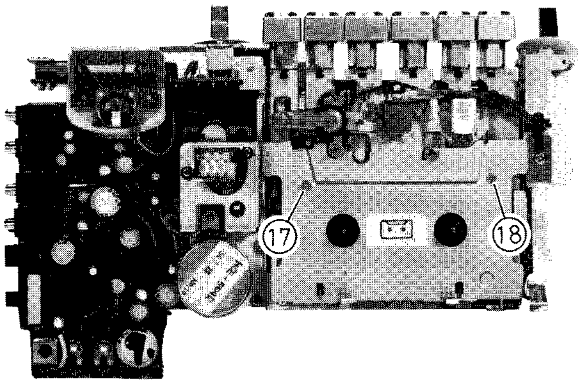


Fig. 8

F. Needle Chassis

Remove 3 screws (19) ~ (21): SBSF3008Z.

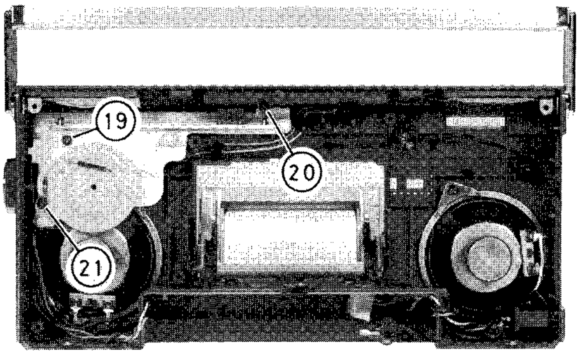


Fig. 9

G. Component Parts of Cassette Mechanism

Reference numbers on the figures from 10 to 13 are the same as on Fig. 38.

1. Pinch Roller Arm Ass'y (65)

a. Remove the E-ring (102).
b. Pull up the pinch roller arm assembly in conjunction with the pause arm (66) and pinch roller spring (67).

2. Play/Record Head (60) & Erase Head (61)

a. Desolder the signal wires.
b. Remove 2 screws (93) & (98) for play/record head and/or (99) for erase head.

3. Supply (25) & Take-up (24) Reel Ass'y

a. Remove the washer (100).
b. Detouch the counter belt (75).
c. Pull up the reel.

Note: The washer (100) may be broken, when it is removed from the shaft, it is interchangeable with the E-ring: REE1500.

4. Tape Counter (74)

a. Detouch the counter belt (75).
b. Remove 2 screws (104).

5. Flywheel Ass'y (45)

a. Remove the flywheel holder (50) by loosening 3 screws (86) & (87).
b. Detouch the main belt (48) and the idler belt (49).

Note: Be careful not to lose the special washer (47) which is inserted into the capstan shaft as shown in Fig. 11 when pulling the flywheel.

6. Motor (72)

a. Motor: Detouch the main belt (48) and remove 3 screws (112).
b. Governor Circuit Board: Remove the screw (92).

7. Idler Ass'y (28)

a. Detouch the idler belt (49).
b. Take off the spring guide (37) by removing 2 screws (90) & (91).

Note: Be careful not to lose the collar which is inserted into the screw under the spring guide.

c. Pull off the stopper (29).
d. Detouch the springs (34) & (35).

8. Take-up Ass'y (42)

a. Depress the PLAY button (84).
b. Detouch the spring (43) as shown in Fig. 11.
c. Remove the E-ring (102).

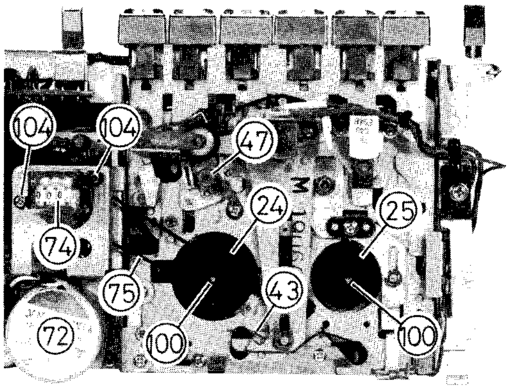


Fig. 11

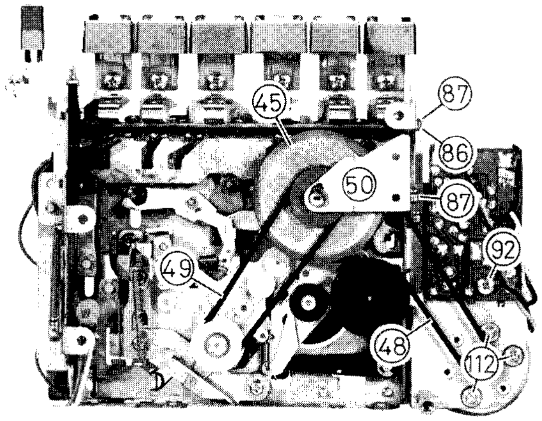


Fig. 12

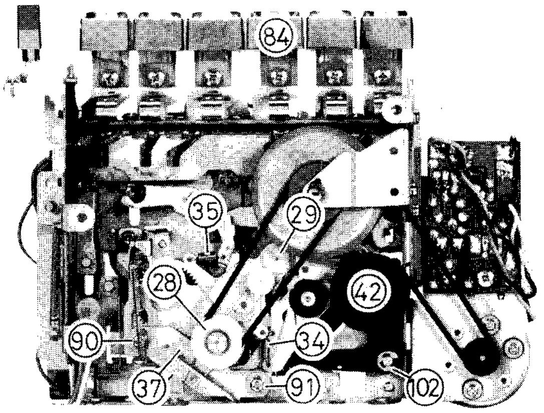


Fig. 13

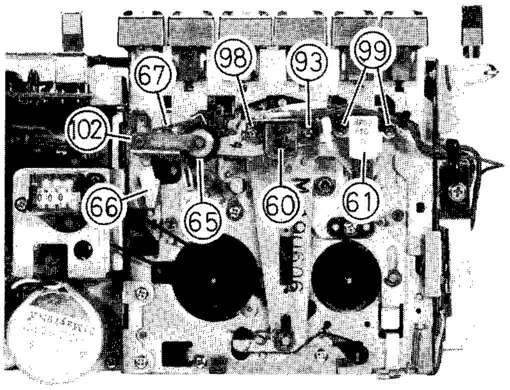


Fig. 10

Tuner Alignment

Output Measuring: Speaker terminal (Impedance = 3.2Ω), output level 50mW (0.4V/3.2Ω)

AM IF & RF Alignment

Input (SSG) Modulation 400Hz, Modulated to 30%

Step	Frequency Band	Input Signal		Place to be aligned	Set the V. Capacitor to
		Frequency	Given to		
1	MW (IF)	455kHz	Loop Antenna	T4, 5	Minimum
2		Repeat the Step 1, and adjust for no further improvement.			
3	LW	145kHz	Loop Antenna	L7	Maximum
4		360kHz		TC3	Minimum
5		Repeat the Steps 3 & 4.			
6		160kHz	Loop Antenna	L5	160kHz Signal
7		350kHz		TC5	350kHz Signal
8		Repeat the Steps 6 & 7, and adjust for no further improvement.			
9	MW	520kHz	Loop Antenna	L8	Maximum
10		1650kHz		TC4	Minimum
11		Repeat the Steps 9 & 10.			
12		600kHz	Loop Antenna	L6	600kHz Signal
13		1400kHz		TC6	1400kHz Signal
14		Repeat the Steps 12 & 13, and adjust for no further improvement.			

FM IF & Discriminator Alignment

Input (Sweep Generator) : TP3 (hot) & TP2
Output (Oscilloscope) : IF TP5 (hot) & TP7
Discriminator TP6 (hot) & TP7

Step	Mode	Place to be aligned	Wave form
1	IF	T1, 2	Peak
2	Discriminator	T3	S-curve

FM RF Alignment

Input (SSG): Use 75Ω terminal, modulation 400Hz modulated to 22.5kHz deviation.
Connect Hot side to TP1 and Cold side to TP2.

Step	Frequency Band	Input Signal		Place to be aligned	Set the V. Capacitor to
		Frequency	Given to		
1	FM	87.5MHz	TP1 & TP2	L3	Maximum
2		109MHz		TC2	Minimum
3		Repeat the Steps 1 & 2.			
4		90MHz	TP1 & TP2	L1	90MHz Signal
5		106MHz		TC1	106MHz Signal
6		Repeat the Steps 4 & 5, and adjust for no further improvement.			

FM MPX Alignment

A. Regular Method

1. Connect a frequency counter to the test point TP8.
2. Supply the monaural signal (98MHz, 60dB) across the test points TP1 and TP2.
3. Adjust the variable resistor VR1 so that the frequency becomes 19kHz ±100Hz.

B. Simplified Method

1. Tune to an FM stereo broadcast.
2. Set the variable resistor VR1 to a center position of the range where the stereo indicator keeps lighting.

Parts Arrangement for Alignment

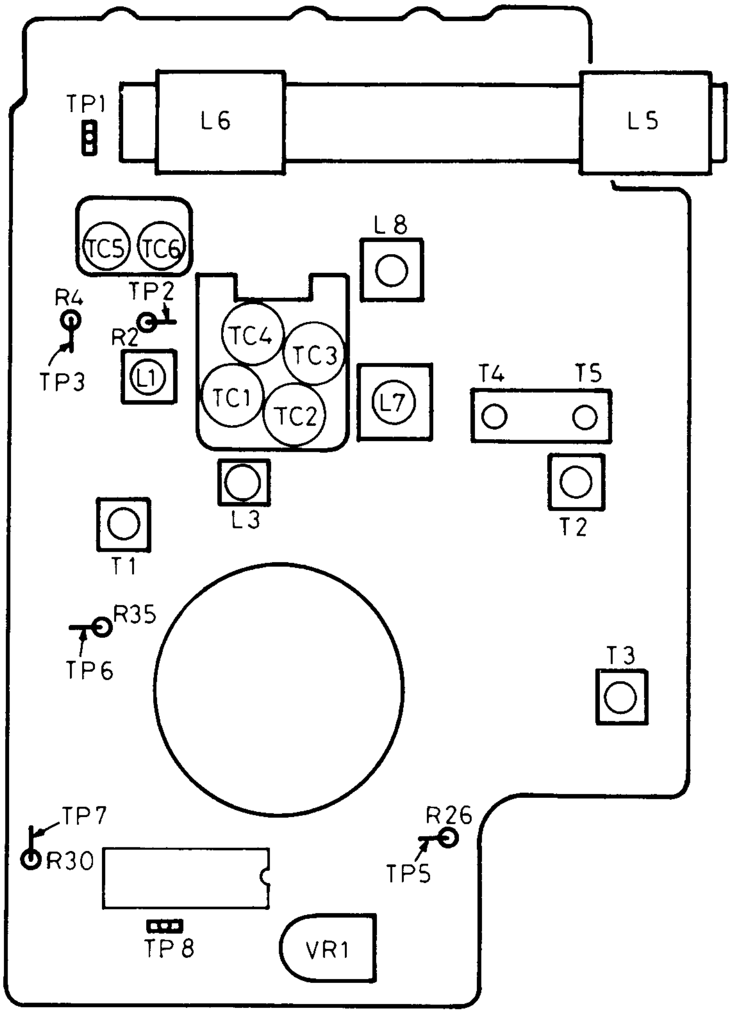

TP1
L6
L5
TC5
TC6
L8
R4
TP2
R2
TC4
TC3
TP3
L1
TC1
TC2
L7
T4
T5
L3
T2
T1
R35
TP6
T3
TP7
R26
R30
TP5
TP8
VR1

Fig. 14

Adjusting Recording Bias

Bias frequency

1. Connect a frequency counter across TP101.
2. Set the BEAT CUT switch to lower position.
3. Adjust the oscillator coil L301 so that the counter indicates 68kHz.

Bias Current

1. Connect a V.T.V.M. across TP101 and TP201.
2. Adjust the variable resistor VR140 (L) and VR240 (R) so that the voltage becomes 4mV (400μA/10Ω).

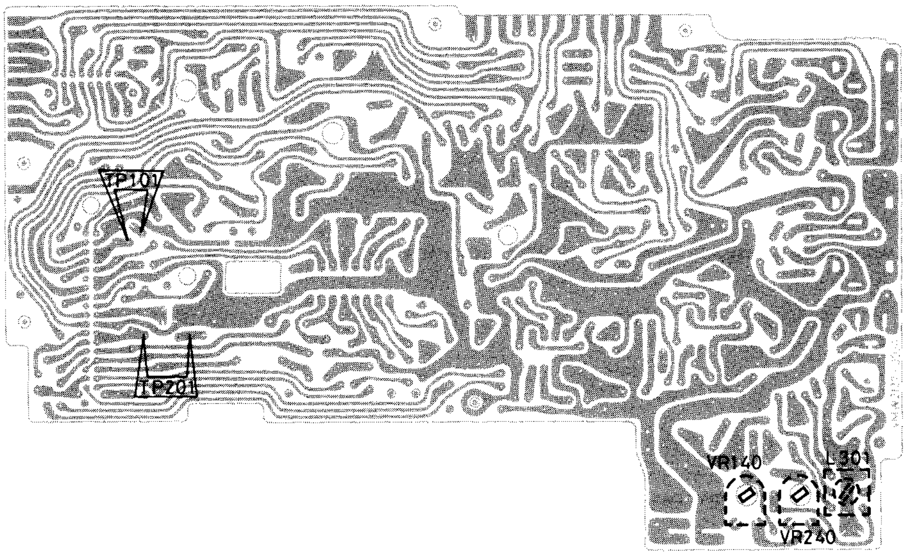


Fig. 15

Adjusting Head Azimuth

Regular Method

1. Connect a dual channel oscilloscope to the speaker terminals.
2. Set the MODE switch to the STEREO position
3. Playback the test cassette for azimuth adjustment.
4. Adjust the head azimuth so that the output signals of left and right channels will become maximum and in phase.

Note: If a single channel oscilloscope will be used, apply the left channel signal to the X-axis and the right to the Y-axis and draw the Lissajous figure.

Simplified Method

1. Connect a V.T.V.M. across the speaker terminal.
2. Set the MODE switch to MONO.
3. Playback the test cassette for azimuth adjustment.
4. Adjust the head angle for maximum output.
   Note: The output voltage shows three peaks while adjusting head angle as illustrated on the right, adjust for maximum peak.
5. Check that the output difference between MONO and STEREO is within 3dB.

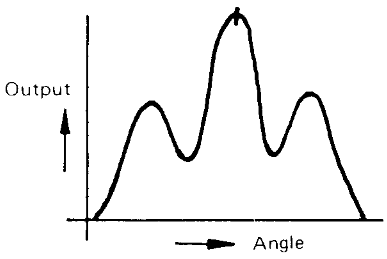


Fig. 16

Adjustment of Cassette Mechanism

Thrust of Flywheel

The clearance between the top of the flywheel shaft and the thrust screw should be within 0.1 to 0.3 mm. If the clearance is out of limits, adjust the thrust screw for normal value. It can be adjusted through the hole (A) of amplifier circuit board as shown in Fig. 18.

Note: After adjustment, fix the thrust screw with lock adhesive.

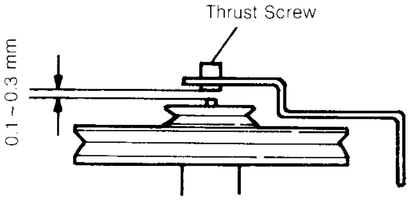


Fig. 17

Tape Speed (Motor Rotation)

1. Connect a frequency counter to the EXT SPEAKER terminal.
2. Play back the test tape for tape speed (3000Hz).
3. Check that the frequency counter indicates from 2040Hz to 3090Hz. If the frequency is out of limit, adjust the semi-fixed variable resistor on the governor circuit board through the hole (B) of the amplifier circuit board.

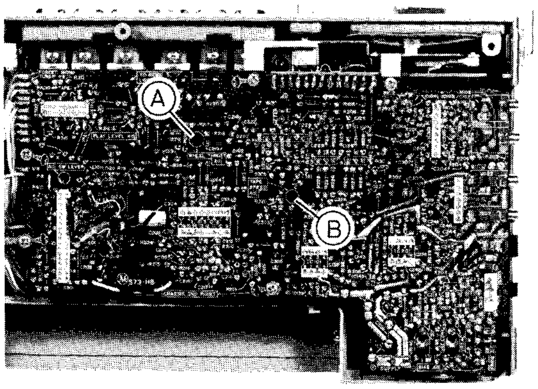


Fig. 18

Torque

Mode	Torque
PLAY	40 ~ 65 g.cm
FF	60 ~ 130 g.cm
REWIND	60 ~ 130 g.cm

Note: If the torque is out of limit, change the take-up reel disk.

Location of Heads

The play/record and erase heads should be positioned as shown below in the playback mode.

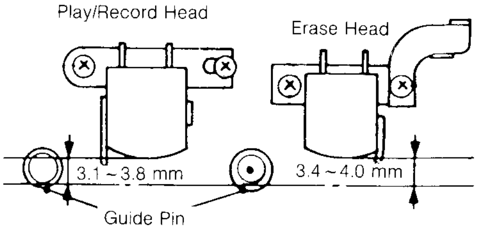


Fig. 19

Pressure of Pinch Roller

1. Setting the mechanism vertically in the playback mode, the pinch roller should stop turning at the pressure of 300 ~ 450g when the pinch roller arm has been pulled upwards by tension gauge as shown in Fig. 20.
2. If the pressure is out of limit, change the pinch roller spring.

   Note: If the pressure is excessively high, it may cause the noise from the pinch roller bearing and defective in wow and flutter. If the pressure is defectively low, it may cause defective in auto stop motion and in wow and flutter.

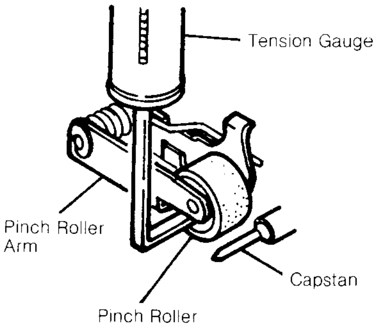


Fig. 20

How to Fit dial Cord

1. Chassis Section

a. Dial Cord: ϕ0.5 x 660mm (20 mil x 26″)
Material: Tetoron
Part No.: VHR2TT9-05A

b. Turn the dial drum fully clockwise.

c. Fit the cord in numerical order as shown in Fig. 21.

d. Fix the needle to the cord.

e. Adjust the starting point : turn the dial drum fully clockwise and set the right edge of needle to the marking on the chassis.

2. Connection of Dial Drum and Tuner Circuit Board

a. Turn the dial drum fully clockwise.

b. Turn the arm mounted on the shaft of variable capacitor fully counterclockwise.

c. Mount the tuner circuit board on the chassis by fitting two slits of the arm to the projections of the dial drum as shown in Fig. 22.

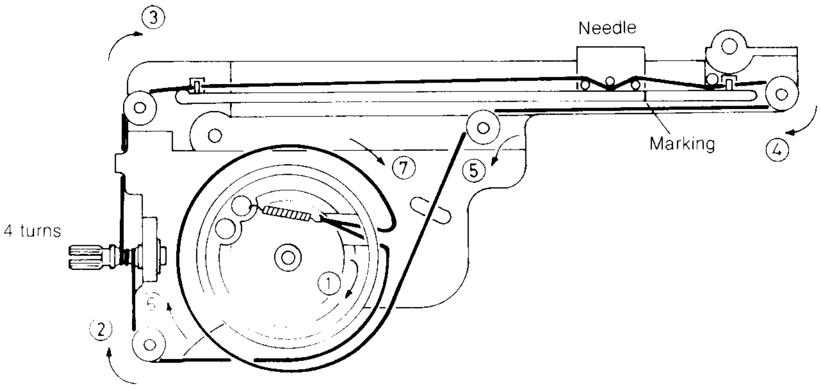


Fig. 21

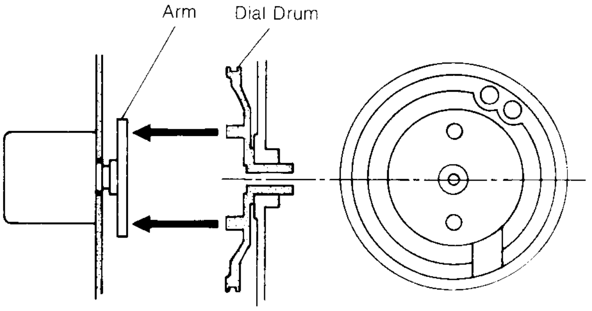


Fig. 22

Block Diagram

Tuner Section

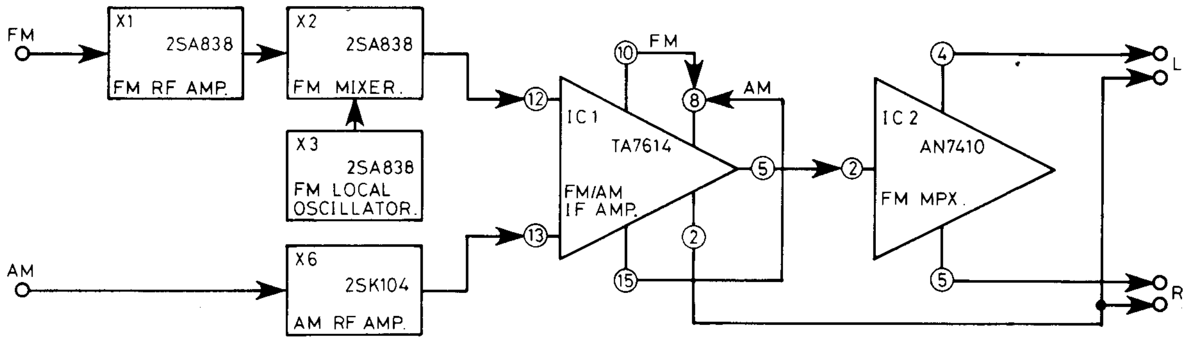

FM
X1
2SA838
FM RF AMP.
X2
2SA838
FM MIXER.
X3
2SA838
FM LOCAL OSCILLATOR.
AM
X6
2SK104
AM RF AMP.
⑩
FM
⑧
AM
⑫
⑬
IC 1
TA7614
FM/AM IF AMP.
⑤
②
⑮
④
IC 2
AN7410
FM MPX.
②
⑤
L
R

Fig. 23

Playback Mode

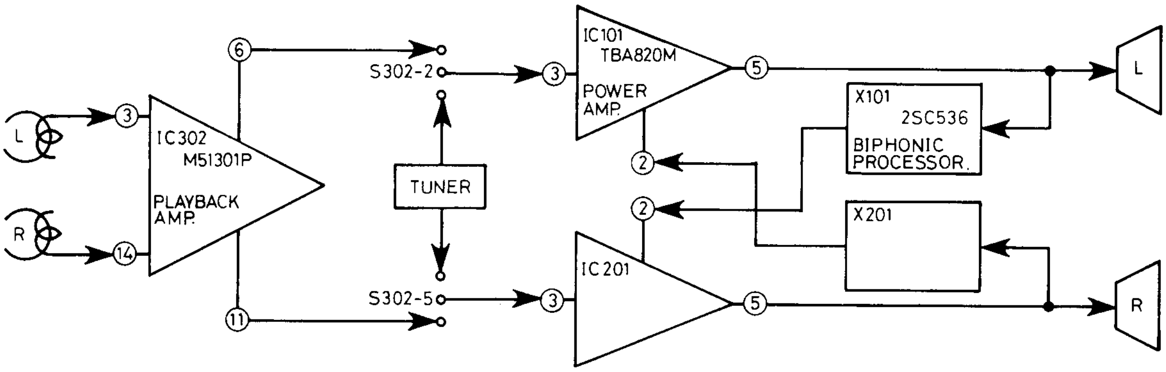

L
R
③
⑭
IC302
M51301P
PLAYBACK AMP.
⑥
⑪
S302-2
S302-5
TUNER
③
IC101
TBA820M
POWER AMP.
⑤
②
②
IC201
③
⑤
X101
2SC536
BIPHONIC PROCESSOR.
X201
L
R

Fig. 24

Recording Mode

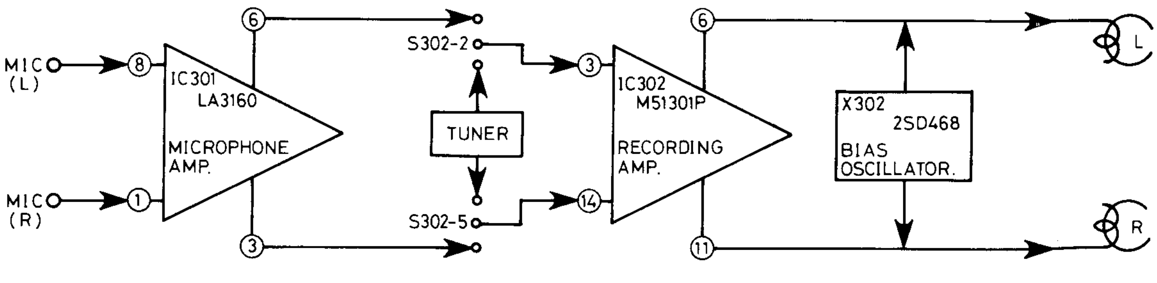

MIC (L)
MIC (R)
⑧
①
IC301
LA3160
MICROPHONE AMP.
⑥
③
S302-2
S302-5
TUNER
③
⑭
IC302
M51301P
RECORDING AMP.
⑥
⑪
X302
2SD468
BIAS OSCILLATOR.
L
R

Fig. 25

Wiring Connection

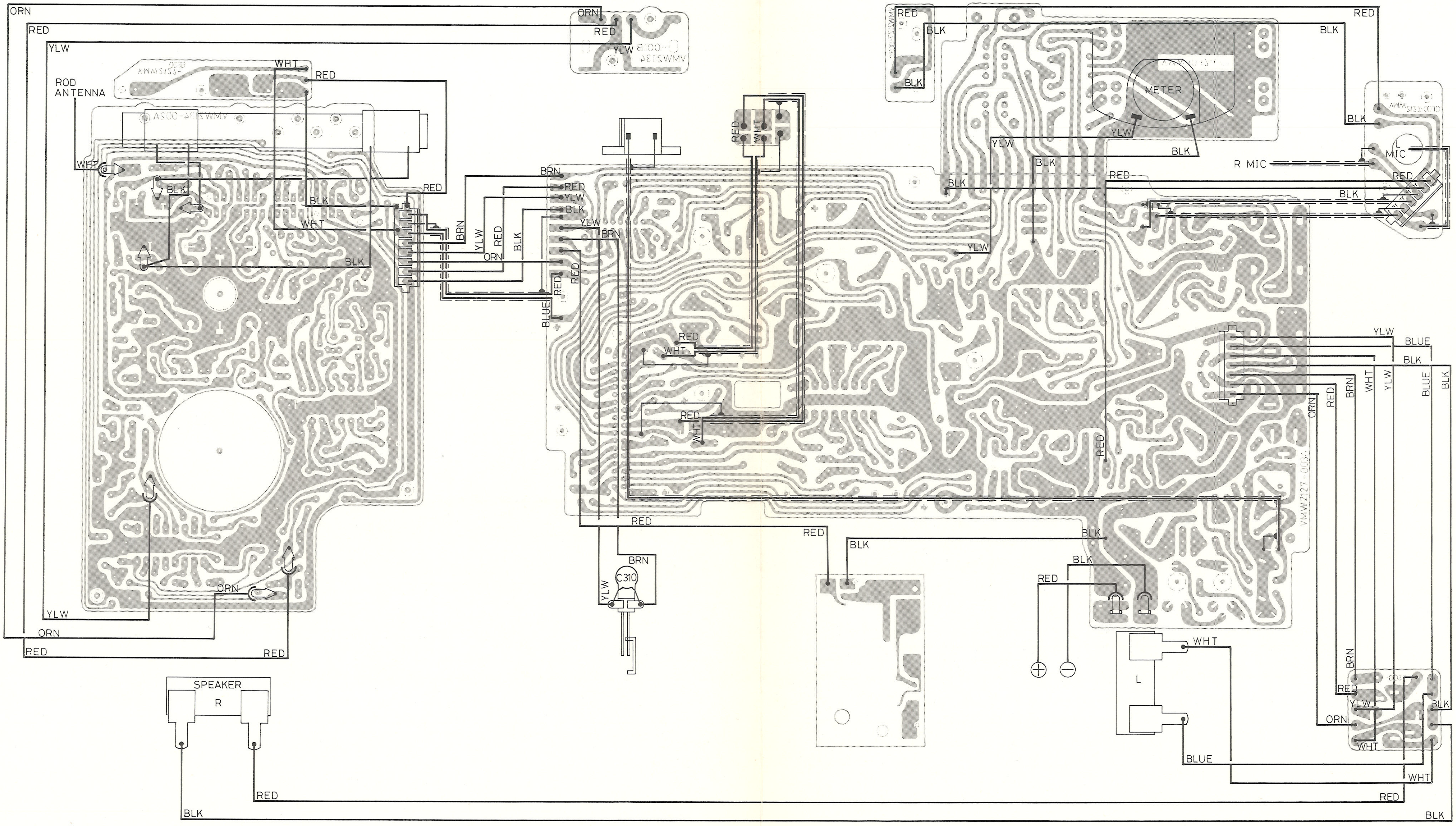
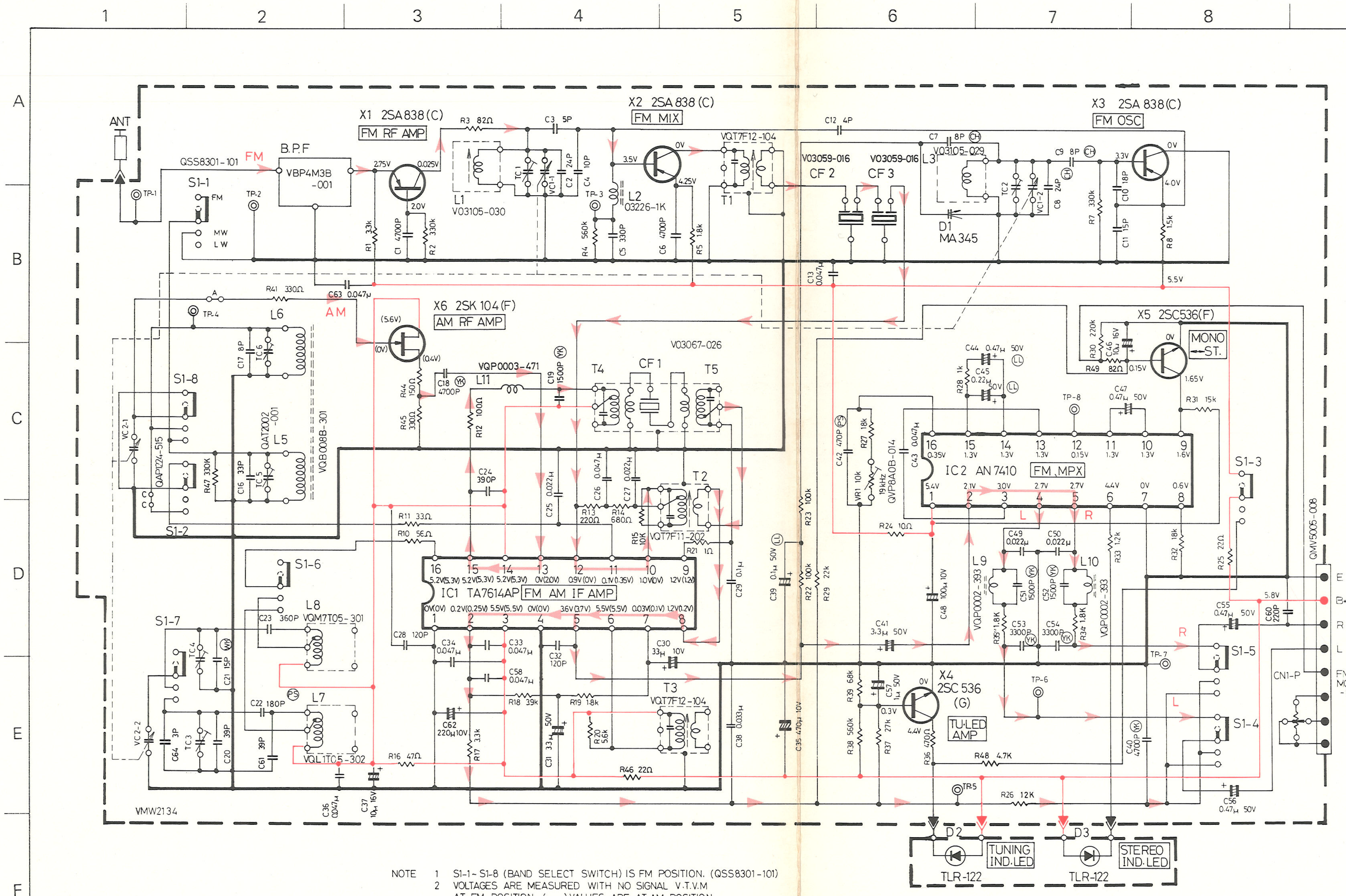

ORN
RED
YLW
ROD ANTENNA
WHT
RED
BLK
WHT
BLK
BLK
RED
BRN
YLW
RED
BLK
ORN
BRN
RED
YLW
BLK
YLW
BRN
RED
RED
BLUE
RED
WHT
RED
WHT
RED
WHT
RED
BRN
C310
YLW
ORN
YLW
RED
ORN
RED
SPEAKER
R
RED
BLK
RED
BLK
BLK
METER
YLW
BLK
YLW
BLK
BLK
RED
YLW
RED
BLK
BLK
R MIC
L MIC
RED
BLK
YLW
BLUE
BLK
ORN
RED
BRN
WHT
YLW
BLUE
BLK
RED
BLK
BLK
RED
BLK
RED
WHT
L
BLUE
BRN
RED
YLW
BLK
ORN
WHT
WHT
RED
BLK

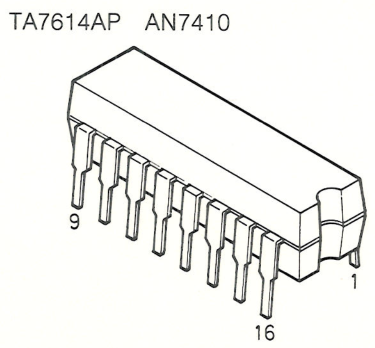
Fig. 26

Schematic Diagram (Tuner)

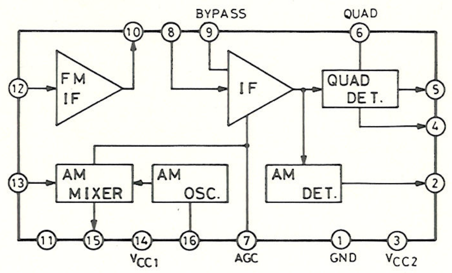

1
2
3
4
5
6
7
8
9
10
A
B
C
D
E
F
ANT
TP-1
QSS8301-101
FM
S1-1
FM
MW
LW
TP-2
B.P.F
VBP4M3B-001
X1 2SA838(C)
FM RF AMP
2.75V
0.025V
2.0V
R1 33k
C1 4700P
R2 330k
R3 82Ω
L1
V03105-030
TC1
VC1-1
C3 5P
C2 24P
C4 10P
X2 2SA838(C)
FM MIX
3.5V
0V
4.25V
TP-3
L2
03226-1K
R4 560k
C5 330P
C6 4700P
R5 1.8k
VQT7F12-104
T1
C12 4P
V03059-016
CF 2
V03059-016
CF 3
C7 8P
V03105-029
L3
D1
MA345
TC2
VC1-2
C8 24P
C9 8P
X3 2SA838(C)
FM OSC
3.3V
0V
4.0V
R7 330k
C10 18P
C11 15P
R8 1.5k
5.5V
C13 0.047μ
R41 330Ω
C63 0.047μ
TP-4
L6
AM
X6 2SK104(F)
AM RF AMP
(5.6V)
(0V)
(0.4V)
C17 8P
TC6
S1-8
VC2-1
QAP124-515
R47 330K
C16 33P
TC5
QAT2002-001
L5
VQB008B-301
S1-2
R44 150Ω
R45 330Ω
C18 4700P
VQP0003-471
L11
R12 100Ω
C19 1500P
T4
CF1
T5
V03067-026
C24 390P
C25 0.022μ
C26 0.047μ
C27 0.022μ
R13 220Ω
R14 680Ω
T2
VQT7F11-202
R15 10K
R21 1Ω
R11 33Ω
R10 56Ω
S1-6
IC1 TA7614AP
FM AM IF AMP
16 15 14 13 12 11 10 9
5.2V(5.3V) 5.2V(5.3V) 5.2V(5.3V) 0V(2.0V) 0.9V(0V) 0.1V(0.35V) 1.0V(0V) 1.2V(1.2V)
1 2 3 4 5 6 7 8
0V(0V) 0.2V(0.25V) 5.5V(5.5V) 0V(0V) 3.6V(3.7V) 5.5V(5.5V) 0.03V(0.1V) 1.2V(0.2V)
C29 0.1μ
S1-7
TC4
C21 15P
L8
C23 360P
VQM7T05-301
C28 120P
C34 0.047μ
C33 0.047μ
C32 120P
C58 0.047μ
C30 33μ 10V
T3
VQT7F12-104
C22 180P
L7
VQL1T05-302
VC2-2
C64 3P
TC3
C20 39P
C61 39P
C62 220μ 10V
R17 3.3k
R18 39k
R19 1.8k
R20 5.6k
C31 33μ 50V
R16 47Ω
R46 22Ω
C38 0.033μ
C36 0.047μ
C37 10μ 16V
VMW2134
C39 0.1μ 50V
C35 470μ 10V
R23 100k
R22 100k
R29 22k
X5 2SC536(F)
MONO ST.
R30 220k
C46 10μ 16V
R49 82Ω
0.15V
1.65V
R31 15k
C44 0.47μ 50V
R28 1k
C45 0.22μ 50V
TP-8
C47 0.47μ 50V
C42 470P
R27 18k
VR1 10k
19kHz QVP8A0B-014
C43 0.047μ
IC2 AN7410
FM MPX
16 15 14 13 12 11 10 9
0.35V 1.3V 1.3V 1.3V 0.15V 1.3V 1.3V 1.6V
5.4V 2.1V 3.0V 2.7V 2.7V 4.4V 0V 0.6V
1 2 3 4 5 6 7 8
L
R
R24 10Ω
C49 0.022μ
C50 0.022μ
L9
L10
R33 1.2k
R32 18k
R25 22Ω
C48 100μ 10V
VQP0002-393
R35 1.8K
C51 1500P
C52 1500P
C53 3300P
C54 3300P
R34 1.8K
VQP0002-393
C41 3.3μ 50V
S1-3
C55 0.47μ 50V
C60 220P
5.8V
TP-7
S1-5
TP-6
S1-4
QMV5005-008
CN1-P
E
B
R
L
FM MONO -ST
X4 2SC536 (G)
TU-LED AMP
0V
0.3V
4.4V
R39 68k
C57 1μ 50V
R38 560k
R37 27k
R36 470Ω
R48 4.7K
C40 4700P
TP5
R26 12K
C56 0.47μ 50V
D2
TUNING IND.LED
TLR-122
D3
STEREO IND.LED
TLR-122

NOTE 1 S1-1 ~ S1-8 (BAND SELECT SWITCH) IS FM POSITION. (QSS8301-101)
2 VOLTAGES ARE MEASURED WITH NO SIGNAL V.T.V.M
AT FM POSITION. ( ) VALUES ARE AT AM POSITION.
3 LAST NO. R45 C60
BLANK NO. R6, 15 C19
R40

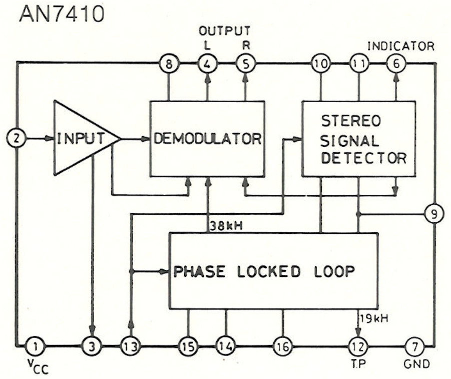
TA7614AP AN7410



TA7614AP


BYPASS
QUAD
FM IF
IF
QUAD DET.
AM MIXER
AM OSC.
AM DET.
AGC
GND
VCC1
VCC2
10
8
9
6
12
5
4
13
2
11
15
14
16
7
1
3

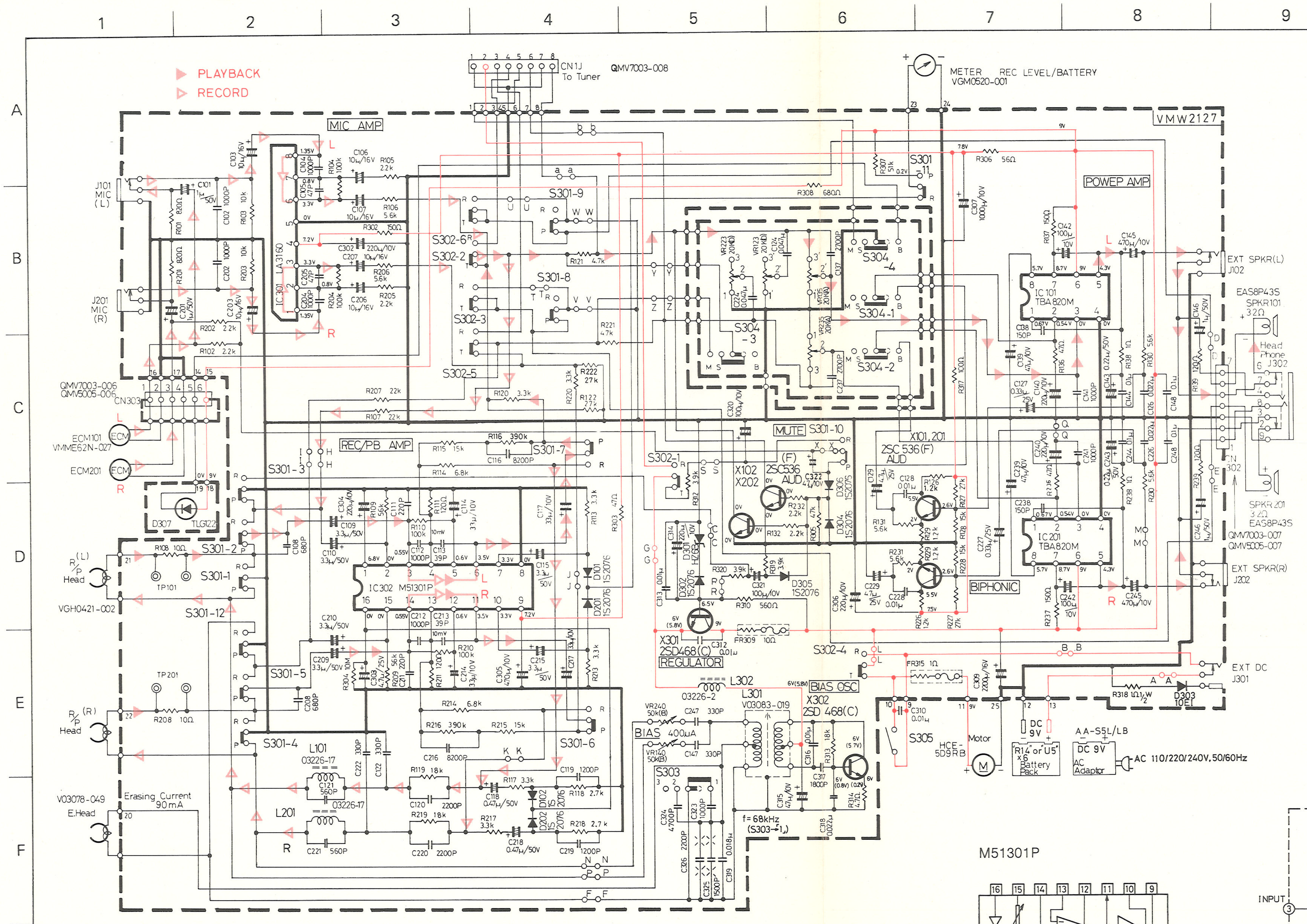
AN7410


OUTPUT
L
R
INDICATOR
INPUT
DEMODULATOR
STEREO SIGNAL DETECTOR
38kH
PHASE LOCKED LOOP
19kH
VCC
TP
GND
8
4
5
10
11
6
2
9
1
3
13
15
14
16
12
7

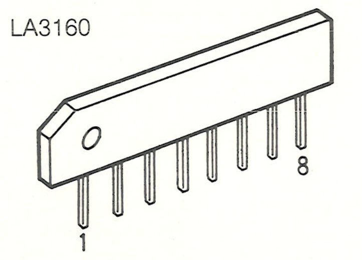
Note:
1. BAND selector (S1-1 ~ -8) is in FM mode.
2. Voltage values are measured with no signal by using an electronic volt-meter in FM mode, values in parentheses are in AM mode.

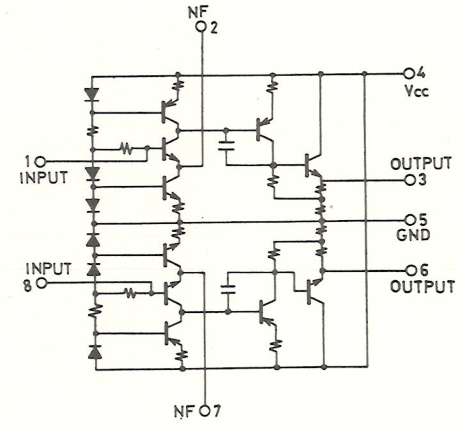
Fig. 27

Schematic Diagram (Amplifier)

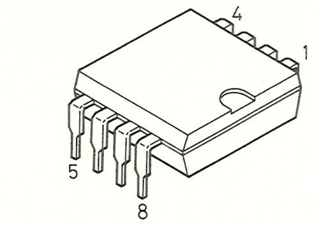

1
2
3
4
5
6
7
8
9
10
A
B
C
D
E
F
G
PLAYBACK
RECORD
CN1J To Tuner
QMV7003-008
METER REC LEVEL/BATTERY
VGM0520-001
VMW2127
MIC AMP
J101 MIC (L)
J201 MIC (R)
IC301 LA3160
S301-9
S302-6
S302-2
S301-8
S302-3
S302-5
S304-4
S304-1
S304-3
S304-2
S301
R306 56Ω
R308 680Ω
POWEP AMP
IC101 TBA820M
EXT SPKR(L) J102
EAS8P43S SPKR101 32Ω
Head Phone J302
QMV7003-006
QMV5005-006
CN303
ECM101 VMME52N-027
ECM201
REC/PB AMP
S301-7
S301-3
MUTE S301-10
X101, 201 2SC536(F) AUD
X102 X202 2SC536 (F) AUD
D307 TLG122
S301-2
S301-1
S301-12
R/P Head
VGH0421-002
TP101
TP201
IC302 M51301P
D101 1S2076
D201 1S2076
D305 1S2076
X301 2SD468(C) REGULATOR
IC201 TBA820M
BIPHONIC
SPKR201 32Ω EAS8P43S
QMV7003-007
QMV5005-007
EXT SPKR(R) J202
S302-4
FR309 10Ω
FR315 1Ω
EXT DC J301
R318 1Ω 1/2W
D303 10E1
S301-5
S301-4
S301-6
L101 03226-17
L201 03226-17
L302 03226-2
L301 V03083-019
BIAS OSC
X302 2SD 468(C)
BIAS 400μA
VR240 50k(B)
VR140 50k(B)
S303
f=68kHz (S303→1)
S305
HCE-5D9RB
Motor
DC 9V
R14 or U5 ×6 Battery Pack
AA-S5L/LB
DC 9V AC Adaptor
AC 110/220/240V, 50/60Hz
V03078-049 E.Head
Erasing Current 90mA

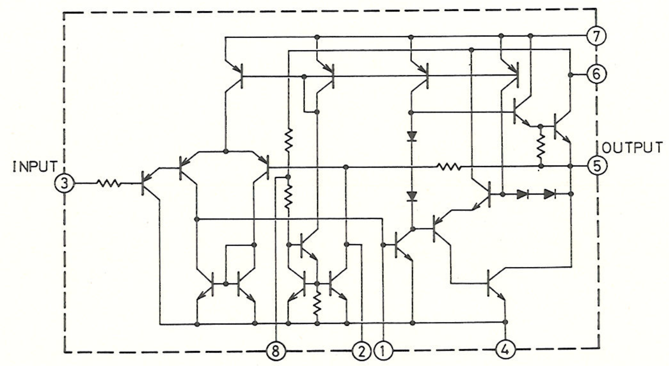
LA3160



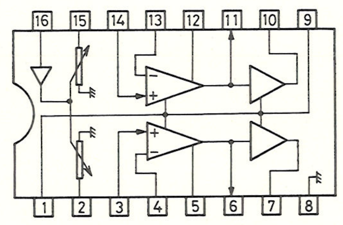

NF 2
4 Vcc
1 INPUT
3 OUTPUT
5 GND
INPUT 8
6 OUTPUT
NF 7

TBA820M




7
6
INPUT 3
OUTPUT 5
8
2
1
4

M51301P


16
15
14
13
12
11
10
9
1
2
3
4
5
6
7
8

Note:

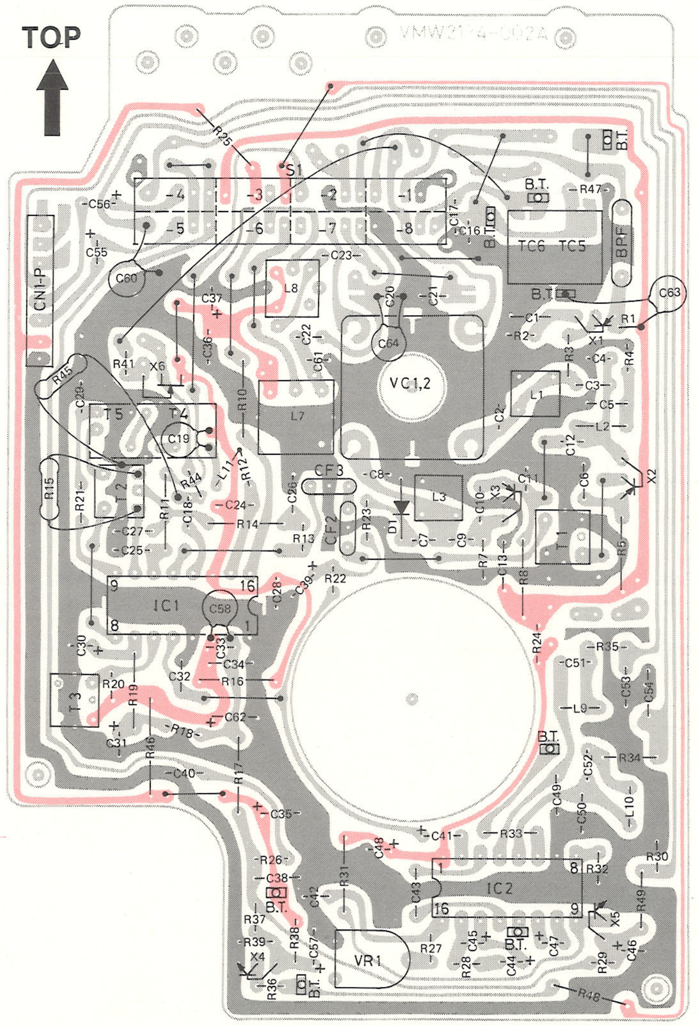
1. Switch Position

S301 (Playback-Record)	: PLAYBACK
S302 (FUNCTION)	: TAPE
S303 (BEAT CUT)	: 1 (Lower Position)
S304 (MODE)	: STEREO
S305 (Main)	: OFF

2. Voltage values are measured with no signal by using an electronic volt-meter in playback mode, values in parentheses are in recording mode.

Fig. 28

Tuner



🟥 Positive Line ▨ Common Line

Fig. 29

Note: The circuit board assembly will not be available as spare part.

Transistors

Asterisked parts (*) show new parts.

Ref. No.	Parts No.	Description	Pc	fT
X1, 2, 3	*2SA838(C)	Silicon (MATSUSHITA)	0.25W	300MHz
X4	2SC536(G)AUD	〃 (SANYO)	〃	100MHz
X5	2SC536(F)AUD	〃 (〃)	〃	〃
X6	2SK104(F)	Field Effect (NEC)		

ICs & Diodes

Ref. No.	Parts No.	Parts Name	Description
IC1	TA7614AP(W)	Integrated circuit	TOSHIBA
IC2	AN7410	〃	MATSUSHITA
D1	MA345	Variable Capacitance Diode	〃

Resistors

Ref. No.	Parts No.	Parts Name	Description	
R1	QRD143J-332S	Carbon	3.3kΩ	1/4W
R2	QRD141J-334S	〃	330kΩ	〃
R3,49	QRD143J-820S	〃	82Ω	〃
R4	QRD141J-564S	〃	560kΩ	〃
R5	〃 -182S	〃	1.8kΩ	〃
R7	QRD143J-334S	〃	330kΩ	〃
R8	QRD141J-152S	〃	1.5kΩ	〃
R10	〃 -560S	〃	56Ω	〃
R11	〃 -330S	〃	33Ω	〃
R12	〃 -101S	〃	100Ω	〃
R13	QRD143J-221S	〃	220Ω	〃
R14	QRD141J-681S	〃	680Ω	〃
R15	QRD143J-103S	〃	10kΩ	〃
R16	QRD141J-470S	〃	47Ω	〃
R17	〃 -332S	〃	3.3kΩ	〃
R18	QRD143J-392S	〃	3.9kΩ	〃
R19	QRD141J-182S	〃	1.8kΩ	〃
R20	QRD143J-562S	〃	5.6kΩ	〃
R21	〃 -1R0S	〃	1Ω	〃
R22,23	〃 -104S	〃	100kΩ	〃
R24	〃 -100S	〃	10Ω	〃
R25	QRD141J-220S	〃	22Ω	〃
R26	〃 -123S	〃	12kΩ	〃
R27	QRD143J-183S	〃	18kΩ	〃
R28	〃 -102S	〃	1kΩ	〃
R29	〃 -223S	〃	22kΩ	〃
R30	QRD141J-224S	〃	220kΩ	〃
R31	〃 -153S	〃	15kΩ	〃
R32	QRD143J-183S	〃	18kΩ	〃
R33	〃 -122S	〃	1.2kΩ	〃
R34	〃 -182S	〃	1.8kΩ	〃
R35	QRD141K-182S	〃	1.8kΩ	〃
R36	QRD143J-471S	〃	470Ω	〃
R37	〃 -273S	〃	27kΩ	〃
R38	〃 -564S	〃	560kΩ	〃
R39	〃 -683S	〃	68kΩ	〃
R41,45	〃 -331S	〃	330Ω	〃
R44	〃 -151S	〃	150Ω	〃
R46	QRD141J-220S	〃	22Ω	〃
R47	QRD143J-334S	〃	330kΩ	〃
R48	QRD141J-472S	〃	4.7kΩ	〃
VR1	QVP8A0B-014	Variable	10kΩ, B-curve	

Capacitors

Asterisked parts (*) show new parts.

Ref. No.	Parts No.	Parts Name	Description
C1,6	QCF11HP-472	Ceramic	4700pF 50V
C2	QCS11HJ-240	″	24pF ″
C3	″ -5R0	″	5pF ″
C4	″ -100	″	10pF ″
C5	″ -331	″	330pF ″
C7,9	QCT05CH-8R0	″	8pF ″
C8	″ -240	″	24pF ″
C10	QCS11HJ-180	″	18pF ″
C11	″ -150	″	15pF ″
C12	″ -4R0	″	4pF ″
C13	QCC11EM-473	″	0.047μF 25V
C16	QCS11HJ-330	″	33pF 50V
C17	″ -8R0	″	8pF ″
C18	QCY41HK-472	″	4700pF ″
C19	″ -152	″	1500pF ″
C20	QCS11HJ-390	″	39pF ″
C21	QCT05WK-150	″	15pF ″
C22	QFS41HJ-181	Polystyrol	180pF ″
C23	QCS11HJ-361	Ceramic	360pF ″
C24	″ -391	″	390pF ″
C25	QFM41HK-223	Mylar	0.022μF ″
C26	QCC11EM-473	Ceramic	0.047μF 25V
C27	QCF11HP-223	″	0.022μF 50V
C28	QCS11HJ-121	″	120pF ″
C29	QCC11EM-104	″	0.1μF 25V
C30	QET41AR-336	Electrolytic	33μF 10V
C31	QET41HR-335	″	3.3μF 50V
C32	QCS11HJ-121	Ceramic	120pF ″
C33,36	QCC11EM-473	″	0.047μF 25V
C34	QFM41HM-473	Mylar	0.047μF 50V
C35	QET41AR-477	Electrolytic	470μF 10V
C37	QET41CR-106	″	10μF 16V
C38	QFM41HM-333	Mylar	0.033μF 50V
C39	QEC41HM-104	Electrolytic	0.1μF ″
C40	QCY41HK-472	Ceramic	4700pF ″
C41	QET41HR-335	Electrolytic	3.3μF ″
C42	QFS41HJ-471	Polystyrol	470pF ″
C43	QFM41HM-473	Mylar	0.047μF ″
C44	QEC41HM-474	Electrolytic	0.47μF ″
C45	″ -224	″	0.22μF ″
C46	QET41CR-106	″	10μF 16V
C47	QET41HR-474	″	0.47μF 50V
C48	QET41AR-107	″	100μF 10V
C49,50	QFM41HK-223	Mylar	0.022μF 50V
C51,52	QCY41HK-152	Ceramic	1500pF ″
C53,54	″ -332	″	3300pF ″
C55,56	QET41HR-474	Electrolytic	0.47μF ″
C57	″ -105	″	1μF ″
C58	QCC11EM-473	Ceramic	0.047μF 25V
C60	QCS11HJ-221	″	220pF 50V
C61	″ -390	″	39pF ″
C62	QET41AR-227	Electrolytic	220μF 10V
C63	QCC11EM-473	Ceramic	0.047μF 25V
C64	QCS11HJ-3R0	″	3pF 50V
VC1,2	*QAP1224-515	Variable	includes TC1 ~ 4
TC5,6	QAT2002-001	Trimmer	

Others

Asterisked parts (*) show new parts.

Ref. No.	Parts No.	Parts Name	Description
L1	V03105-030	Coil	FM RF
L2	03226-1K	Inductor	FM IF Trap
L3	V03105-029	Coil	FM Osc.
L7	VQL1T05-302	″	LW Osc.
L8	*VQM7T05-301	″	MW Osc.
L9,10	VQP0002-393	Inductor	39mH (FM MPX)
L11	VQP0003-471	″	470μH
T1,3	VQT7F12-104	I.F.T.	FM
T2	VQT7F11-202	″	″
T4,5	V03067-026	″	AM
S1-1 ~ -8	*QSS8301-101	Slide Switch	BAND
BPF	VBP4M3B-001	Band Pass Filter	FM Antenna
CF2,3	V03059-016	Ceramic Filter	FM IF
CN1-P	QMV5005-008	Connector	
BT	VKL3143-001	Board in Tab	
	VYH4021-001	Shield Plate	for IC2
	VYH4420-001	Spacer	for Variable Capacitor

Amplifier Circuit Board Ass'y

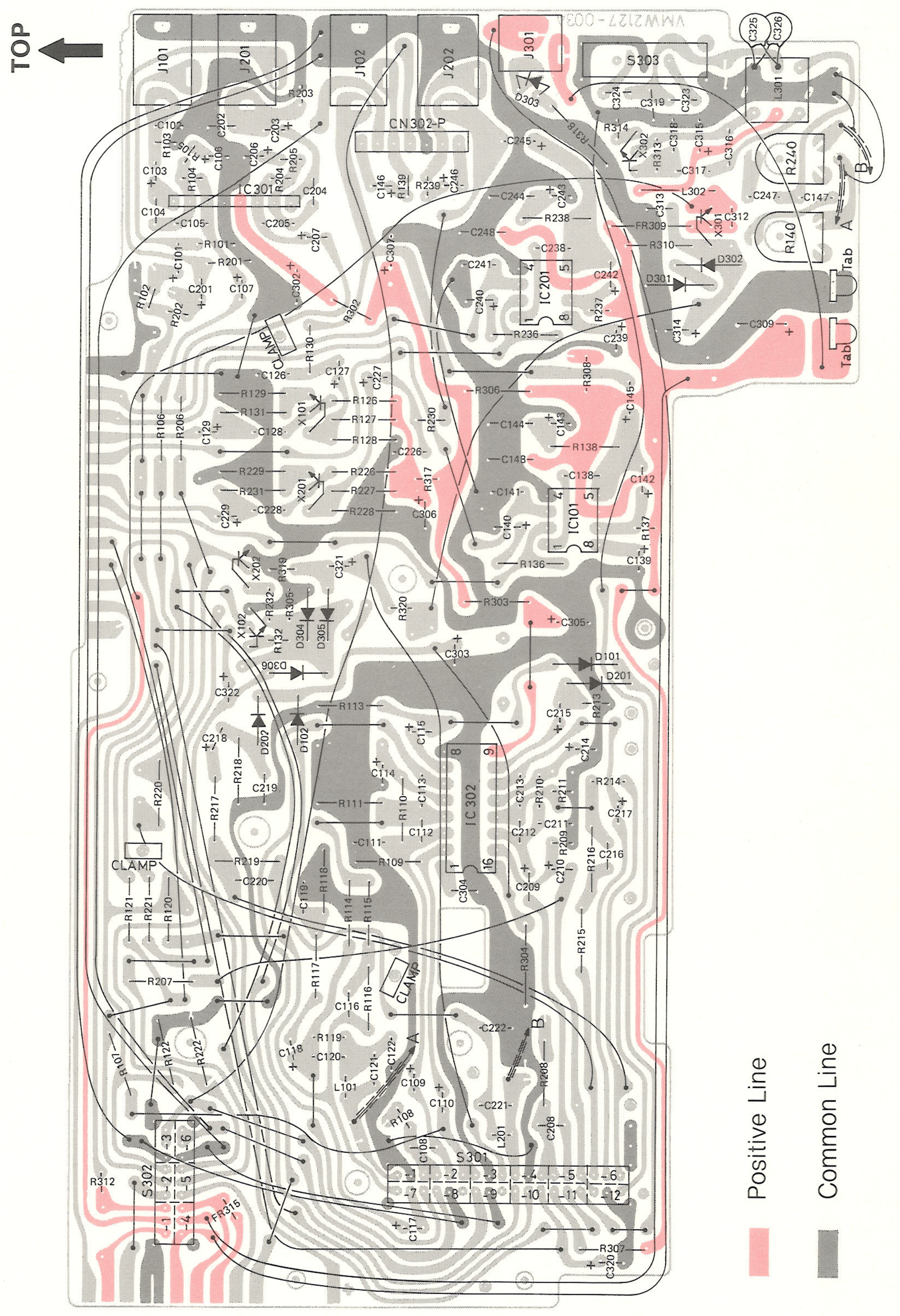

TOP
J101
J201
J102
J202
J301
S303
CN302-P
IC301
IC201
IC101
IC302
L301
L302
R140
R240
Tab
A
B
CLAMP
S301
S302
X101
X201
X102
X202
X301
X302
D101
D201
D301
D302
D303
VMW2127-003

Fig. 30

🟥 Positive Line

⬛ Common Line

Note: The circuit board assembly will not be available as spare part.

Transistors

Ref. No.	Parts No.	Description	Pc	fT
X101,102,201,202	2SC536(F)AUD	Silicon (SANYO)	0.25W	100MHz
X301,302	2SD468(C)	〃 (HITACHI)	0.9W	190MHz

ICs & Diodes

Asterisked parts (*) show new parts.

Ref. No.	Parts No.	Parts Name	Description
IC101,201	TBA820M	Integrated Circuit	SGS-ATES
IC301	LA3160	〃	SANYO
IC302	* M51301P	〃	MITSUBISHI
D101,102,201,202	1S2076	Silicon Diode	HITACHI
D301	HZ6B	Zener Diode	〃
D302,304,305,306	1S2076	Silicon Diode	〃
D303	10E1	〃	J.I.R.C.

Resistors

Ref. No.	Parts No.	Parts Name	Description
R101,201	QRD143J-821S	Carbon	820Ω 1/4W
R102,105,202,205	〃 -222S	〃	2.2kΩ 〃
R103,203	〃 -103S	〃	10kΩ 〃
R104,204	〃 -104S	〃	100kΩ 〃
R106,206	QRD141J-562S	〃	5.6kΩ 〃
R107,207	〃 -223S	〃	22kΩ 〃
R108	QRD143J-100S	〃	10Ω 〃
R109	QRD141J-563S	〃	56kΩ 〃
R110	〃 -104S	〃	100kΩ 〃
R111	〃 -121S	〃	120Ω 〃
R113	〃 -332S	〃	3.3kΩ 〃
R114	〃 -682S	〃	6.8kΩ 〃
R115,215	〃 -153S	〃	15kΩ 〃
R116,216	〃 -394S	〃	390kΩ 〃
R117,217	〃 -332S	〃	3.3kΩ 〃
R118,218	〃 -272S	〃	2.7kΩ 〃
R119	QRD143J-183S	〃	18kΩ 〃
R120,220	QRD141J-332S	〃	3.3kΩ 〃
R121,221	〃 -472S	〃	4.7kΩ 〃
R122,127,222,227	〃 -273S	〃	27kΩ 〃
R126,129,226,229	〃 -122S	〃	1.2kΩ 〃
R128,228	〃 -153S	〃	15kΩ 〃
R130,230	QRD143J-562S	〃	5.6kΩ 〃
R131,231	QRD141J-562S	〃	〃 〃
R132,232	QRD143J-222S	〃	2.2kΩ 〃
R136,236	QRD141J-470S	〃	47Ω 〃
R137.237	QRD143J-151S	〃	150Ω 〃
R138,238	QRD141J-1R0S	〃	1Ω 〃
R139,239	QRD143J-121S	〃	120Ω 〃
R208	QRD141J-100S	〃	10Ω 〃
R209	QRD143J-563S	〃	56kΩ 〃
R210	〃 -104S	〃	100kΩ 〃
R211	〃 -121S	〃	120Ω 〃
R213	〃 -332S	〃	3.3kΩ 〃
R214	〃 -682S	〃	6.8kΩ 〃
R219	QRD141J-183S	〃	18kΩ 〃
R302	QRD143J-151S	〃	150Ω 〃

Ref. No.	Parts No.	Parts Name	Description
R303	QRD141J-470S	Carbon	47Ω 1/4W
R304	QRD121J-106	″	10MΩ 1/2W
R305	QRD143J-473S	″	47kΩ 1/4W
R306	QRD141J-560S	″	56Ω ″
R307	″ -513S	″	51kΩ ″
R308	QRD143J-681S	″	680Ω ″
R310	QRD141J-271S	″	270Ω ″
R312,319,320	QRD143J-392S	″	3.9kΩ ″
R313	″ -183S	″	18kΩ ″
R314	″ -4R7S	″	4.7Ω ″
R317	″ -101S	″	100Ω ″
R318	QRD121J-1R0	″	1Ω 1/2W
FR309	QRH141J-100	Fusible	10Ω 1/4W
FR315	″ -1R0	″	1Ω ″
VR140,240	QVP8A0B-054	Variable	50kΩ, B-curve

Capacitors

Ref. No.	Parts No.	Parts Name	Description
C101,201	QET41HR-105	Electrolytic	1μF 50V
C102,104,202,204	QCF11HP-102	Ceramic	1000pF ″
C103,203	QET41CR-106	Electrolytic	10μF 16V
C105,205	QCS11HJ-470	Ceramic	47pF 50V
C106,107,206,207	QET41CR-106	Electrolytic	10μF 16V
C108,208	QCY41HK-681	Ceramic	680pF 50V
C109,110,209,210	QET41HR-335	Electrolytic	3.3μF ″
C111,211	QCS11HJ-221	Ceramic	220pF ″
C112,212	QCF11HP-102	″	1000pF ″
C113,213	QCS11HJ-390	″	39pF ″
C114,214	QET41AR-336	Electrolytic	33μF 10V
C115,215	QET41HR-335	″	3.3μF 50V
C116,216	QFM41HK-822	Mylar	8200pF ″
C117,217	QET41AR-336	Electrolytic	33μF 10V
C118,218	QET41HR-474	″	0.47μF 50V
C119,219	QCY41HK-122	Ceramic	1200pF ″
C120,220	″ -222	″	2200pF ″
C121,221	QCS11HJ-561	″	560pF ″
C122,222	″ -331	″	330pF ″
C126,226	QFM41HK-223	Mylar	0.022μF ″
C127,227	QEC41HM-334	Electrolytic	0.33μF ″
C128,228	QFM41HK-103	Mylar	0.01μF ″
C129,229	QET41ER-475	Electrolytic	4.7μF 25V
C138,238	QCS11HJ-151	Ceramic	150pF 50V
C139,239	QET41AR-476	Electrolytic	47μF 10V
C140,240	″ -227	″	220μ ″
C141,241	QCF11HP-102	Ceramic	1000pF 50V
C142,242	QET41AR-107	Electrolytic	100μF 10V
C143,243	QEC41HM-224	″	0.22μF 50V
C144,148,244,248	QFM41HK-104	Mylar	0.1μF ″
C145,245	QET41AR-477	Electrolytic	470μF 10V
C146,246	QEW41HA-105	″	1μF 50V
C147,247	QCS11HJ-331	Ceramic	330pF ″
C302,304,306	QET41AR-227	Electrolytic	220μF 10V
C303	QET41ER-475	″	4.7μF 25V
C305	QET41AR-477	″	470μF 10V
C307	″ -108	″	1000μF ″
C309	QET41CR-228	″	2200μF 16V
C312,313	QCF11HP-103	Ceramic	0.01μF 50V
C314	QET41AR-227	Electrolytic	220μF 10V
C315	″ -476	″	47μF ″
C316	QFM41HK-103	Mylar	0.01μF 50V
C317	QFM41HJ-182	″	1800pF ″
C318	QFM41HK-223	″	0.022μF ″
C319	QFM42AK-183	″	0.018μF 100V
C320,321	QET41AR-107	Electrolytic	100μF 10V
C322	″ -476	″	47μF ″
C323	QCY41HK-102	Ceramic	1000pF 50V
C324	QFM42AK-472	Mylar	4700pF 100V
C325	QCY41HK-152	Ceramic	1500pF 50V
C326	″ -222	″	2200pF ″

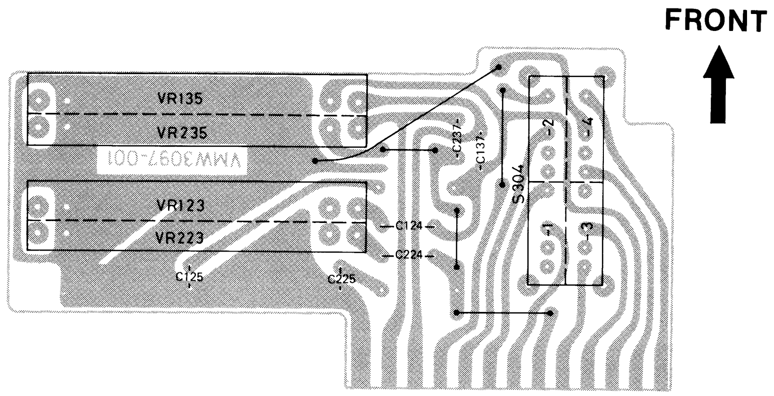
Others

Asterisked parts (*) show new parts.

Ref. No.	Parts No.	Parts Name	Description
L101,201	03226-17	Inductor	
L301	V03083-019	Coil	Bias Osc.
L302	03226-2	Inductor	
J101,102,201,202	QMS3501-014	Jack Ass'y	MIC, EXT SPKR
J301	QMA9003-001	″	EXT DC
S301	*QSSC201-201	Slide Switch	Play-Record
S302	*QSS6201-301R	″	FUNCTION
S303	*QSS1301-101	″	BEAT CUT
CN302-P	QMV5005-007	Connector	7-pin
CLAMP	V44691-001	Wire Clamp	
Tab	V43895-1	Tab	

Control Circuit Board Ass'y

A. TONE & VOLUME


FRONT
VR135
VR235
VMW3097-001
VR123
VR223
C125
C225
C124
C224
C237
C137
S304
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-4

Fig. 31

B. BALANCE

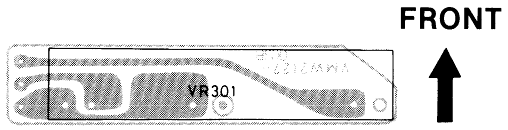

FRONT
VR301
VMW2127

Fig. 32

Note: The circuit board assembly will not be available as spare part.

Resistors

Asterisked parts (*) show new parts.

Ref. No.	Parts No.	Parts Name	Description
VR123,223	*QVR8F1D-024M	Variable (slide)	20kΩ, D-curve TONE
VR135,235	*QVR2F1A-024M	〃 (〃)	〃 , A-curve VOLUME
VR301	*QVR0F1W-554M	〃 (〃)	50kΩ, W-curve BALANCE

Capacitors

Ref. No.	Parts No.	Parts Name	Description
C124,224	QFM41HK-473	Mylar	0.047μF 50V
C137,237	QCY41HK-272	Ceramic	2700pF 〃

Switch

Ref. No.	Parts No.	Parts Name	Description
S304	QSL4324-001S	Lever	MODE

Connector Circuit Board Ass'y

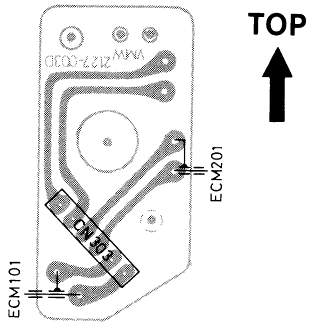

TOP
VMW2127-CC3D
CN303
ECM201
ECM101

Fig. 33

Note: The circuit board assembly will not be available as spare part.

Ref. No.	Parts No.	Parts Name	Description
CN303-P	QMV5005-006	Connector	6-pin
ECM101,201	VMME62N-027	Condenser Microphone	

Headphone Jack Circuit Board Ass'y

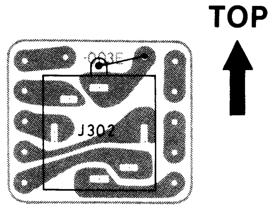


Fig. 34

Note: The circuit board assembly will not be available as spare part.

Jack & Connector

Asterisked parts (*) show new parts.

Ref. No.	Parts No.	Parts Name	Description
J302	QMS6301-008	Headphone Jack Ass'y	
	*VDM5056-001-003	Connector & Wire Ass'y	7-pin Connector: QMV7003-007

LED Circuit Board Ass'y

A. FM STEREO & TUNING Indicator

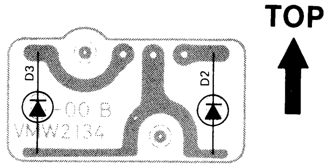
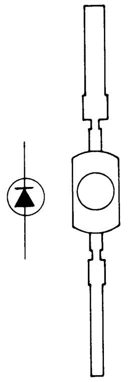


Fig. 35



B. BIPHONIC/WIDE Indicator

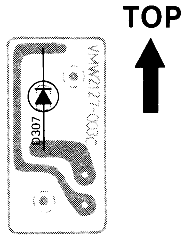


Fig. 36

Note: The circuit board assembly will not be available as spare part.

Diodes

Ref. No.	Parts No.	Parts Name	Description
D2,3	TLR122	Light Emitting (Red)	TOSHIBA
D307	TLG122	〃 (Green)	〃

Exploded View of Cassette Mechanism

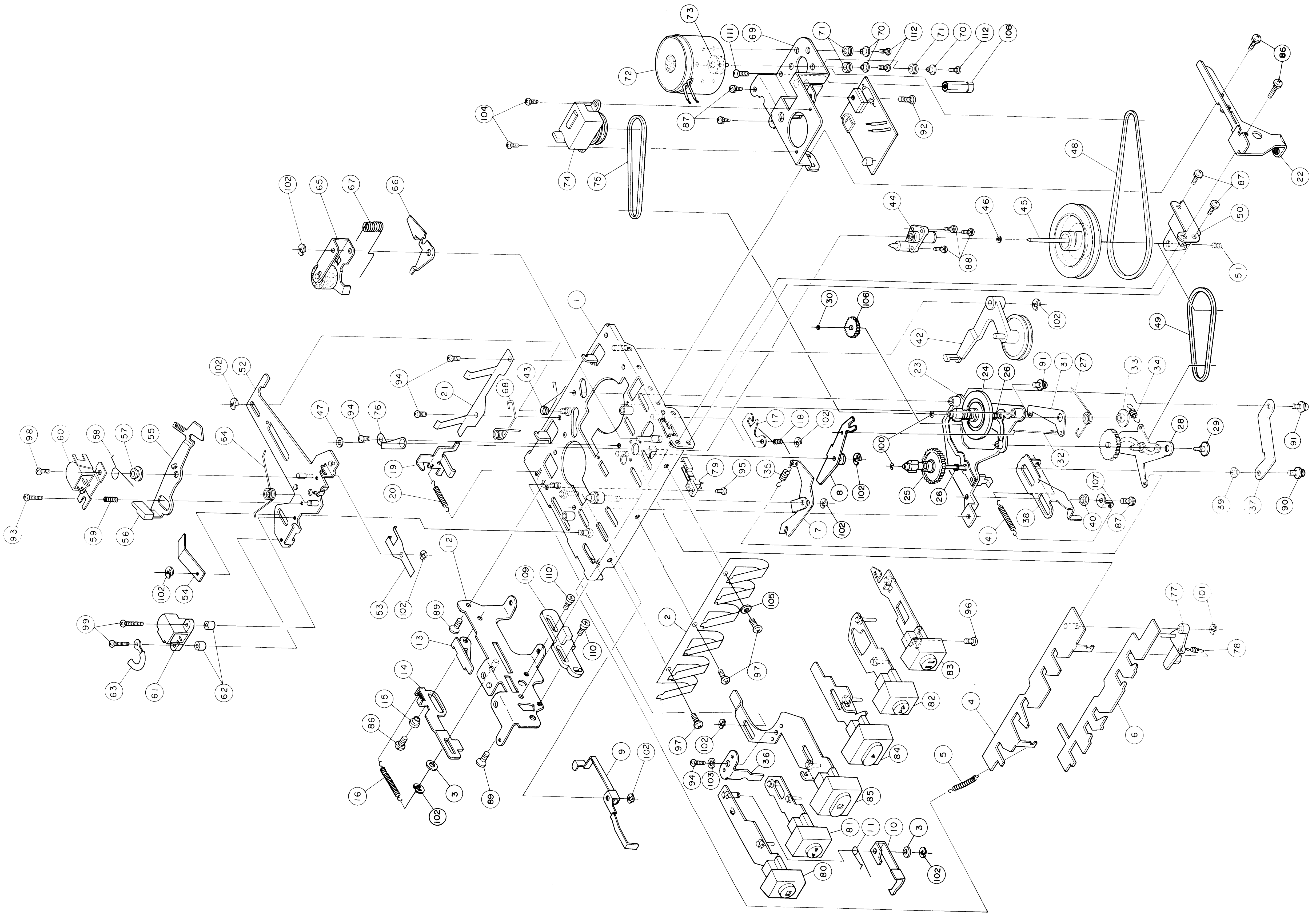

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Fig. 37

List of Cassette Mechanism

Asterisked parts (*) show new parts.

Ref. No.	Parts No.	Parts Name	Description	Q'ty
1	*VKL2120-00C	Chassis Base Ass'y		1
2	*VKL4532-001	Button Spring		1
3	Q03093-831	Washer		2
4	*VKL4558-00A	Push Bar Cam Ass'y		1
5	*VKW3002-020	Tension Spring		1
6	*VKL3193-001	Push Bar Cam (2)		1
7	*VKL4583-001	Rewind Lever		1
8	*VKL4538-001	FF Lever		1
9	*VKL4633-001	Switch Lever		1
10	*VKL4551-001	Eject Arm		1
11	*VKW4164-001	Eject Arm Spring		1
12	*VKL4590-00A	Holder Bracket Ass'y		1
13	*VKL4549-001	Kick Lever		1
14	*VKL4556-001	Slide Lever		1
15	*VKH3001-022	Flange Collar		1
16	*VKW3002-022	Tension Spring		1
17	*VKL4554-001	Pause Lock Cam		1
18	*VKW4163-001	Pause Lock Cam Spring		1
19	*VKL4550-001	Record Safety Lever		1
20	*VKW3002-021	Tension Spring		1
21	*VKL4539-001	Pack spring		1
22	*VKL4541-001	Amp. Bracket		1
23	*VKL3195-00B	Reel Disk Bracket Ass'y		1
24	*VKR4125-00C	Take-up Reel Ass'y		1
25	*VKR4126-00D	Supply Reel Ass'y		1
26	*VKW3001-035	Compression Spring		2
27	VKW4176-001	Tension Lever Spring		1
28	*VKL4560-00C	Idler Ass'y		1
29	*__________	Stopper		1
30	__________	Washer	interchangeable with REE1200	1
31	*VKL4536-001	Tension Lever		1
32	*VKW4167-001	Connecting Wire		1
33	TEP357436-001	Stopper		1
34	*VKW3002-036	Tension Spring		1
35	*VKW3002-031	〃		1
36	*VKL4545-004	Record Spring Plate		1
37	*VKL4533-001	Spring Guide		1
38	*VKL4547-001	Record Slide Plate		1
39	*VKH3001-030	Flange Collar		1
40	*VKH3001-031	〃		1
41	*VKW3002-034	Tension Spring		1
42	*VKS4162-00B	Take-up Ass'y		1
43	*VKW4171-001	Take-up Spring		1
44	*VKF4101-00B	Capstan Metal Ass'y		1
45	VKF3109-00A	Flywheel Ass'y		1
46	Q03093-829	Washer		1
47	Q03093-527	〃		1
48	*VKB3000-013	Belt	Main	1
49	*VKB3000-016	〃	Idler	1
50	*VKL4548-001	Flywheel Holder		1
51	*VKS4157-001	Thrust Screw		1
52	*VKL3198-00B	Head Base Ass'y		1
53	*VKL4543-001	Spring Plate		1
54	*VKL4630-001	Head Spring Plate		1
55	*VKL4544-001	Auto Stop Lever		1
56	*VKS4159-001	Detect Contact		1
57	*VKH4218-001	R/P Head Collar		1
58	*VKW4166-001	Auto Stop Lever Spring		1
59	*VKW3001-036	Compression Spring		1
60	*VHG0421-002	R/P Head		1
61	V03078-049	Erase Head		1
62	*VKH3000-027	Collar		2
63	VKZ4001-009	Wire Holder		2
64	*VKW4165-001	Head Base Spring		1
65	*VKP4103-00B	Pinch Roller Arm Ass'y		1
66	*VKL4552-001	Pause Arm		1
67	*VKW4162-002	Pinch Roller Spring		1
68	*VKW4172-001	Return Spring	Head Base	1
69	*VKL4584-002	Motor Bracket		1
70	*VKH3001-026	Flange Collar		3
71	F26449-01	Motor Cushion		3
72	*HCE-5D9RB	Motor	with governor circuit	1
73	*VKR4133-001	Motor Pulley		1
74	*VKC5126-002T	Tape Counter		1
75	*VKB3000-015	Belt	Counter	1
76	*VKL4564-001	Earth Plate		1
77	*VKS4158-001	Auto Stop Kick Lever		1
78	*VKW3002-021	Tension Spring		1
79	*VSH1105-002	Leaf Switch	S305 (Main Switch)	1
80	*VXP3039-001	Push Button	STOP	1
81	*VXP3038-002	〃	REVIEW	1
82	*VXP3039-002	〃	CUE	1
83	*VXP3038-001	〃	PAUSE	1
84	*VXP3040-001	〃	PLAY	1
85	*VXP3041-001	〃	RECORD	1
86	LPSP2605Z	Ass'y Screw		4
87	LPSP2604Z	〃		5
88	LPSP2005Z	〃		3
89	SSSP2603Z	Screw		2
90	DPSP2606Z	Ass'y Screw		1
91	DPSP2610Z	〃		2
92	SDSP2608Z	Screw		1
93	SPSX2006Z	〃		1
94	SPSP2603Z	〃		4
95	SPSP2605Z	〃		1
96	VKZ4131-001	Special Screw		6
97	SDSP2603Z	Screw		3
98	SPSP2005Z	〃		1
99	SPSP2006Z	〃		2
100	__________	Washer	interchangeable with REE1500	2
101	REE1500	E-Ring		2
102	REE2500	〃		10
103	WLS2600E	Lock Washer		1
104	SPSK2045Z	Mini. Screw		2
105	WNS2600Z	Washer		1
106	*VKR4139-001	FF Gear		1
107	*VKL4645-001	Spring Hook		1
108	*VKH3011-002	Stud		1
109	*VYH4363-003	Slider		1
110	VYH4017-001	Stud		2
111	LPSP2604Z	Ass'y Screw		1
112	SPSK2045Z	Mini. Screw		3

Exploded View of Amplifier Section

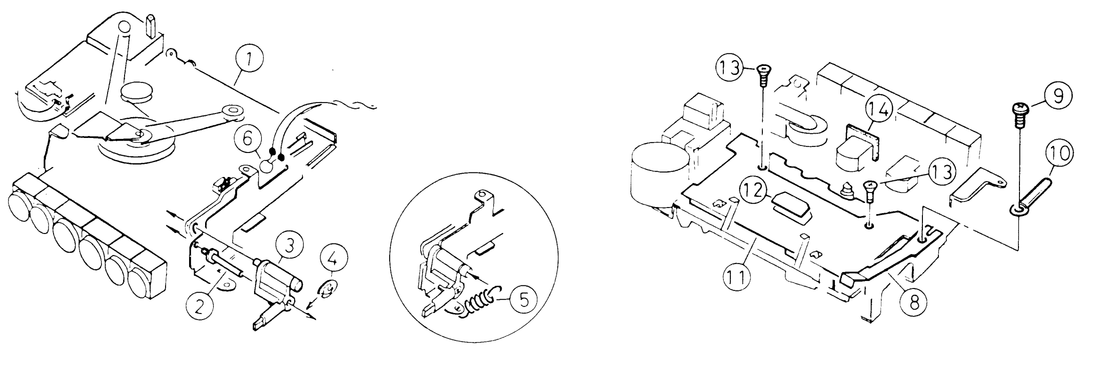

Fig. 38

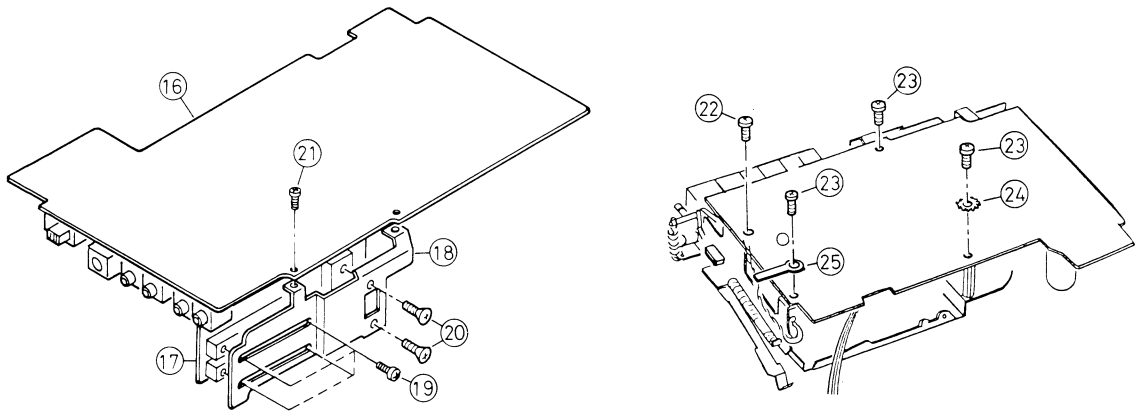

Fig. 39

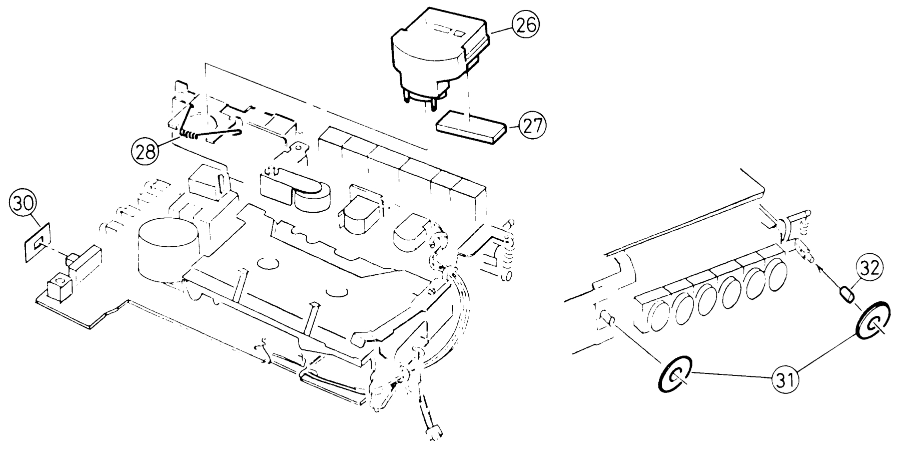

Fig. 40

Asterisked parts (*) show new parts.

Ref. No.	Parts No.	Parts Name	Description	Q'ty
1	*__________	Cassette Mechanism Ass'y		1
2	*VKH3008-003	Flange Shaft		1
3	VXQ4027-001	Toggle Lever		1
4	REE2500	E-Ring		1
5	*VKW3000-023	Tension Spring		1
6	QCF11HP-103	Ceramic Capacitor	C310 (0.01μF, 50V)	1
7			Blank No.	
8	*VKY4163-001	Door Spring		1
9	SDSP3008RS	Screw		1
10	VKZ4001-007	Wire Holder		1
11	*VJD4296-003	Cassette Plate		1
12	*VJD4005-002	Reflection Plate	Sticker	1
13	SSSP2005R	Screw		2
14	VMW3035-601	Circuit Board	for Play/Record Head	1
15			Blank No.	
16	*__________	Circuit Board Ass'y	Amplifier	1
17	*__________	〃	TONE & VOLUME	1
18	*VYH4353-001	Control Bracket		1
19	SPSP2003Z	Screw		4
20	SSSP2604Z	〃		2
21	SPSP3008ZS	〃		1
22	SSSP3008ZS	〃		1
23	SPSP3008ZS	〃		3
24	WBS3000N	Toothed Lock Washer		1
25	VKZ4001-006	Wire Holder		1
26	*VGM0520-001	Indicator		1
27	*VYSH105-024	Spacer	Glued	1
28	*VKW4177-001	Tension Spring		1
29			Blank No.	
30	*VYH4422-001	Spacer	for BEAT CUT Switch	1
31	*VYH4388-002	Dust Pad		2
32	*VYH4022-001	Cap	for FUNCTION Switch	1

Exploded View of Tuner & Needle Chassis Ass'y

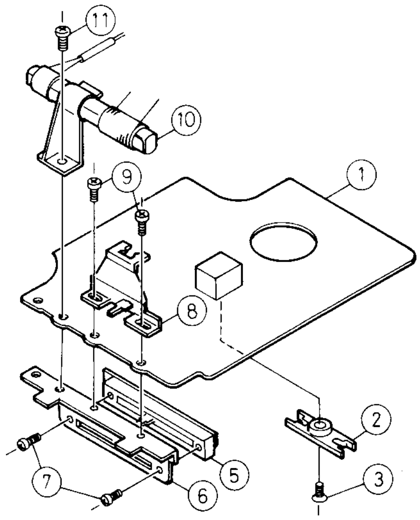

Fig. 41

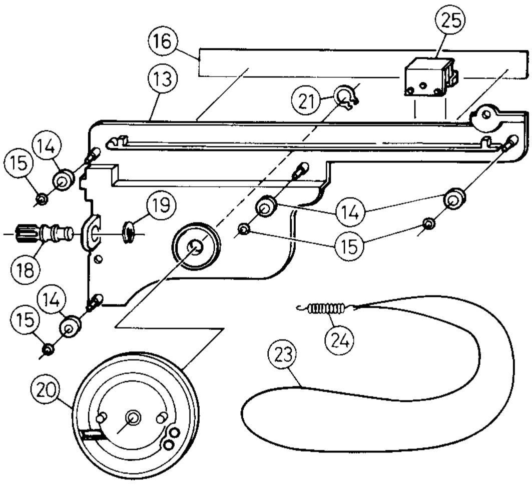

Fig. 42

Asterisked parts (*) show new parts.

Ref. No.	Parts No.	Parts Name	Description	Q'ty
1	*————	Circuit Board Ass'y	Tuner	1
2	*VYH4358-001	Arm		1
3	SSSP2608Z	Screw		1
4			Blank No.	
5	*————	Circuit Board Ass'y	BALANCE Control	1
6	*VYH4364-001	Bracket		1
7	SPSP2003Z	Screw		2
8	*VYH4365-001	Slide Lever		1
9	V42583-1	Stud		2
10	*VQB008B-301A	Bar Antenna Ass'y	L5, 6	1
11	SWSP3008ZS	Screw		1
12			Blank No.	
13	*VYH2114-001	Chassis Base	Needle	1
14	VYH4002-001	Roller		4
15	V42562-1	Special Washer		4
16	*VJK4117-001	Back Scale	Glued	1
17			Blank No.	
18	*VYH4009-006	Tuning Shaft		1
19	REE3000	E-Ring		1
20	*VYH4355-001	Dial Drum		1
21	RCSA6000	C-Ring		1
22			Blank No.	
23	VHR2TT9-05A	Dial Cord	Tetoron ϕ0.5 X L660	1 set
24	53498-3	Spring		1
25	*VJN4033-00A	Needle Ass'y		1

Exploded View of Front Cabinet

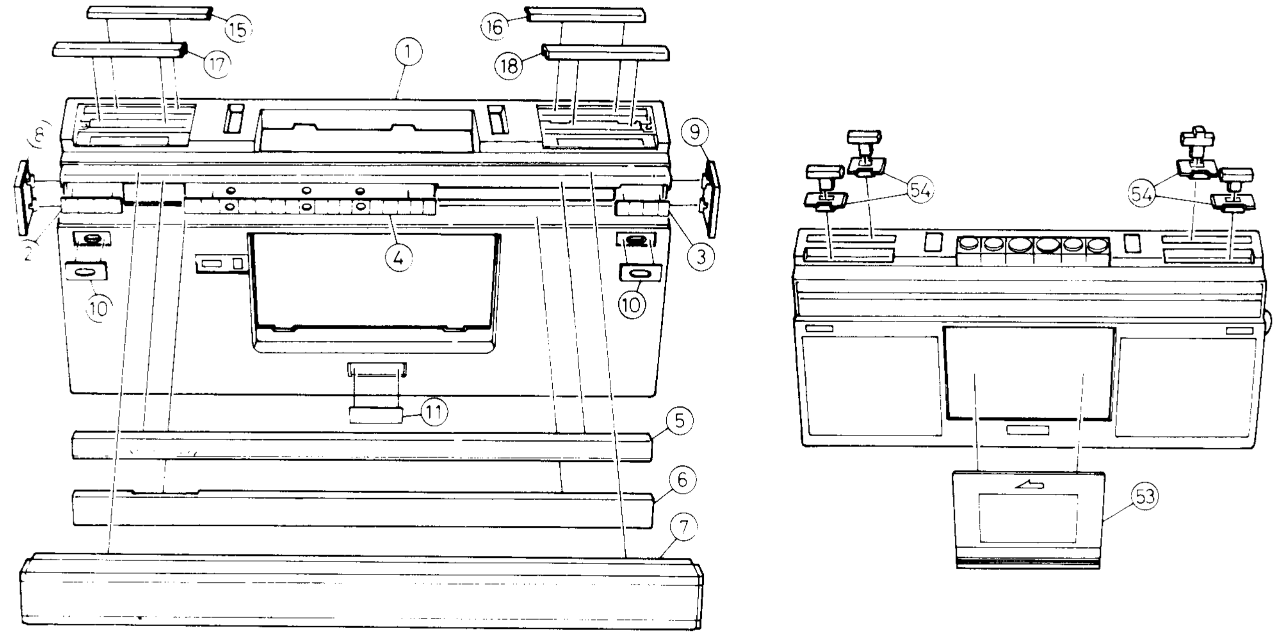
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Fig. 43

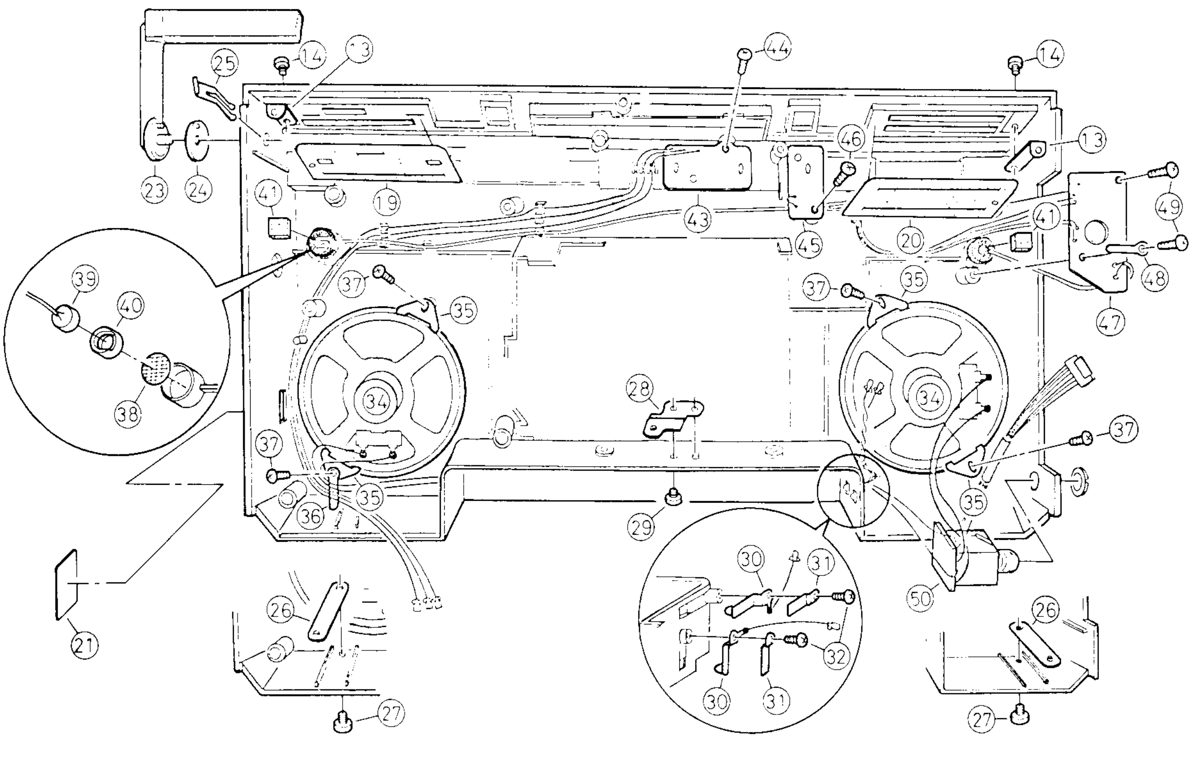
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Fig. 44

Asterisked parts (*) show new parts.

Ref. No.	Parts No.	Parts Name	Description	Q'ty
1～21	*ZCRCS5L-CBF	Front Cabinet Ass'y	RC-S5L & LB	1 set
1	*VJC2019-00C	Front Cabinet		1
2	*VJK4115-001	Dial Back Plate (L)	Glued	1
3	*VJK4116-001	〃 (R)	〃	1
4	*VJD4319-001	LED Plate	〃	1
5	*VJK3132-003	Dial Scale (A)	〃	1
6	*VJK3133-002	〃 (B)	〃	1
7	*VJK3134-001	Dial Lens	〃	1
8	*VJD3190-001	Side Fitting (L)		1
9	*VJD3190-002	〃 (R)	〃	1
10	*VJD4316-001	Microphone Plate	〃	2
11	*VJD4006-002	Mark Plate	〃	1
12			Blank No.	
13	*VYH4373-001	Cabinet Clamp (A)		2
14	SPSP2606Z	Screw		2
15	*VJD4317-003	L-Plate	Glued (TONE)	1
16	*VJD4317-005	〃	〃 (BAND)	1
17	*VJD4318-003	U-Plate	〃 (VOLUME)	1
18	*VJD4318-004	〃	〃 (BALANCE)	1
19	*VYH4386-002	Dust Spacer (R)	〃	1
20	*VYH4387-002	〃 (L)	〃	1
21	*VJD4320-001	Plate	〃	1
22			Blank No.	
23	*VJH4014-00B	Handle		1
24	*VYH4351-001	Spacer		2
25	*VKY4162-001	Spring		2
26	*VYH4374-001	Cabinet Clamp (B)		2
27	SDSP3006RS	Screw		2
28	*VYH4375-001	Cabinet Clamp (C)		1
29	SDSP2603R	Screw		1
30	*VYH4393-00B	Contact		2
31	*VYH4424-001	Stopper		2
32	SBSF2606Z	Tapping Screw	former No.: VKZ4125-009	2
33			Blank No.	
34	*EAS8P43S	Speaker	8 cm (3″), 3.2Ω	2
35	V41228-4	Clamp		4
36	VKZ4001-007	Wire Holder		2
37	SBSF3008Z	Tapping Screw	former No.: VKZ4125-004	4
38	*VYH4372-001	Dust Net		2
39	VMME62N-027	Condenser Microphone		2
40	*VYH4348-001	Microphone Bushing		2
41	VYSH104-016	Spacer		2
42			Blank No.	
43	*————	Circuit Board Ass'y	FM STEREO, TUNING	1
44	SBSF3006Z	Tapping Screw	former No.: VKZ4125-008	1
45	*————	Circuit Board Ass'y	BIPHONIC/WIDE	1
46	SBSF3006Z	Tapping Screw	former No.: VKZ4125-008	1
47	*————	Circuit Board Ass'y	Connector	1
48	VKZ4001-007	Wire Holder		1
49	SBSF3008Z	Tapping Screw	former No.: VKZ4125-004	2
50	*————	Circuit Board Ass'y	Headphone Jack	1
51			Blank No.	
52			〃	
53	*ZCRCS5-CCA	Cassette Door Ass'y		1 set
54	*VYH4421-001	Supporter		4

Exploded View of Rear Cabinet

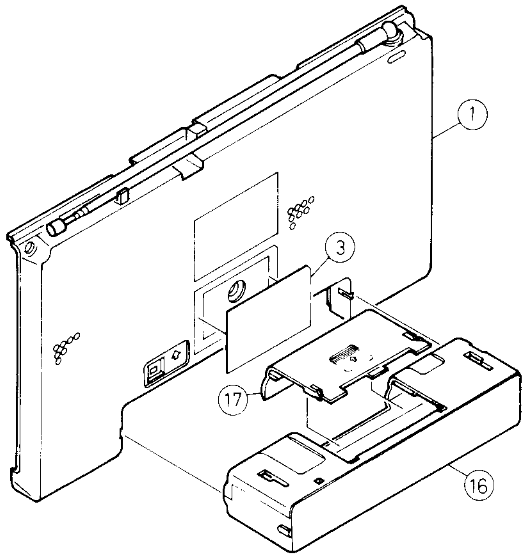


Fig. 45

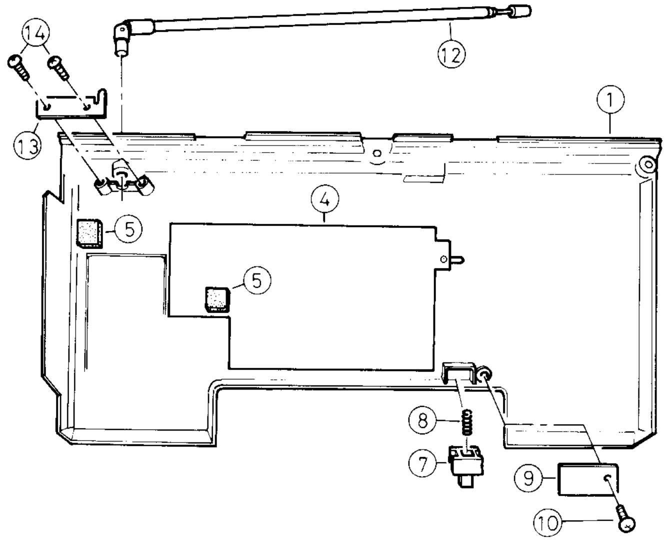


Fig. 46

Asterisked parts (*) show new parts.

Ref. No.	Parts No.	Parts Name	Description	Q'ty
1 ~ 5	*ZCRCS5 □-CBR	Rear Cabinet Ass'y	See "Note:"	1 set
1	*VJC1083-002	Rear Cabinet		1
2			Blank No.	
3	*VYN5056-□□□	Name Plate	Glued See "Note:"	1
4	*VYH4379-00A	Shield Plate	〃	1
5	VYH104-016	Spacer	〃	2
6			Blank No.	
7	*VYH4377-001	Slide Stopper		1
8	*VKW3001-042	Compression Spring		1
9	*VYH4378-001	Plate		1
10	SBSF3008Z	Tapping Screw	former No.: VKZ4125-004	1
11			Blank No.	
12	*VJA3002-00A	Rod Antenna Ass'y		1
13	VYH4384-001	Rod Antenna Holder		1
14	SBSF3006Z	Tapping Screw	former No.: VKZ4125-008	2
15			Blank No.	
16	*VJC2020-00B	Battery Pack		1
17	*VJC4003-001	Battery Cover		1

Note:

	Rear Cabinet Ass'y	Name Plate
RC-S5L	*ZCRCS5L-CBR	*VYN5056-004C
RC-S5LB	*ZCRCS5LB-CBR	*VYN5056-006CBS

Final Packing Ass'y (RC-S5L)

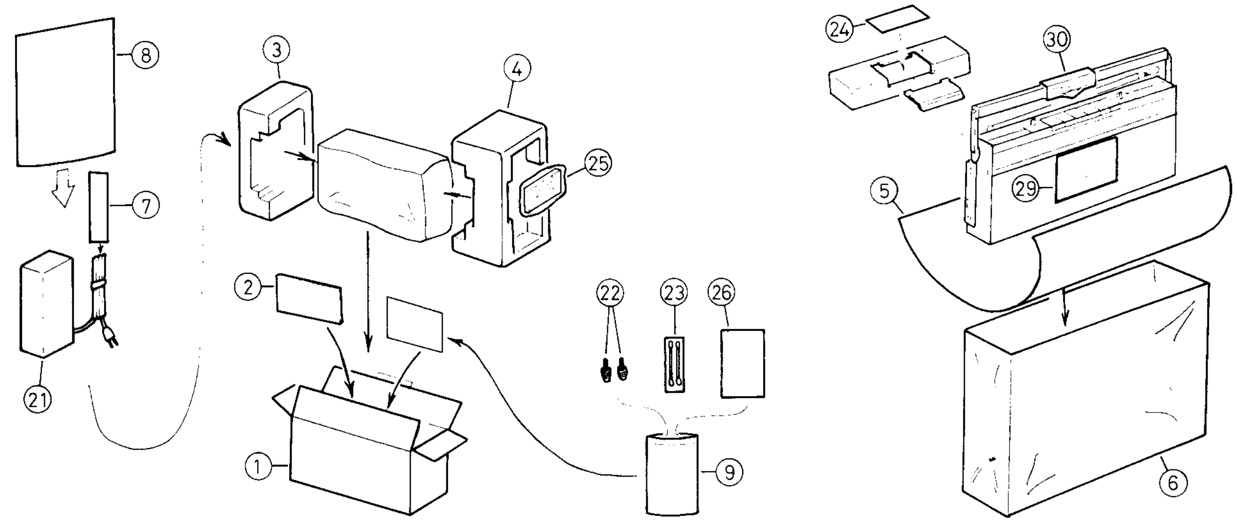


Fig. 47

Asterisked parts (*) show new parts.

Ref. No.	Parts No.	Parts Name	Description	Q'ty
1	*VPD5056-J07	Carton Box		1
2	*VPK4123-001	Spacer		1
3	*VPH1178-001	Side Cushion (L)		1
4	*VPH1186-001	〃 (R)		1
5	VHPJ055-026	Wrapping Paper		1
6	QPGA040-03005	Polyetylen Bag		1
7	QPGA010-01503	〃		1
8	QPGA015-03005	〃		1
9	QPGB024-03404	〃		1

Accessories (RC-S5L)

Asterisked parts (*) show new parts.

Ref. No.	Parts No.	Parts Name	Description	Q'ty
21	*AA-S5L	AC Adaptor Pack	⚠ 110/220/240V	1
22	V04056-1	Shorting Plug		2
23	VYA4001-00A	Head Cleaning Stick		2
24	*VYH4436-00B	Tape Ass'y	Tape, Caution Sheet & Bag	1 set
25	*VGT12S3-J03	Cassette Tape		1
26	*VNM0755-301	Instruction Book		1
27			Blank No.	
28			〃	
29	*VNF0749-001	Feature Sticker	Glued on Cassette door	1
30	*VNF0750-001	〃	Wrapped arround handle	1

Final Packing Ass'y (RC-S5LB)

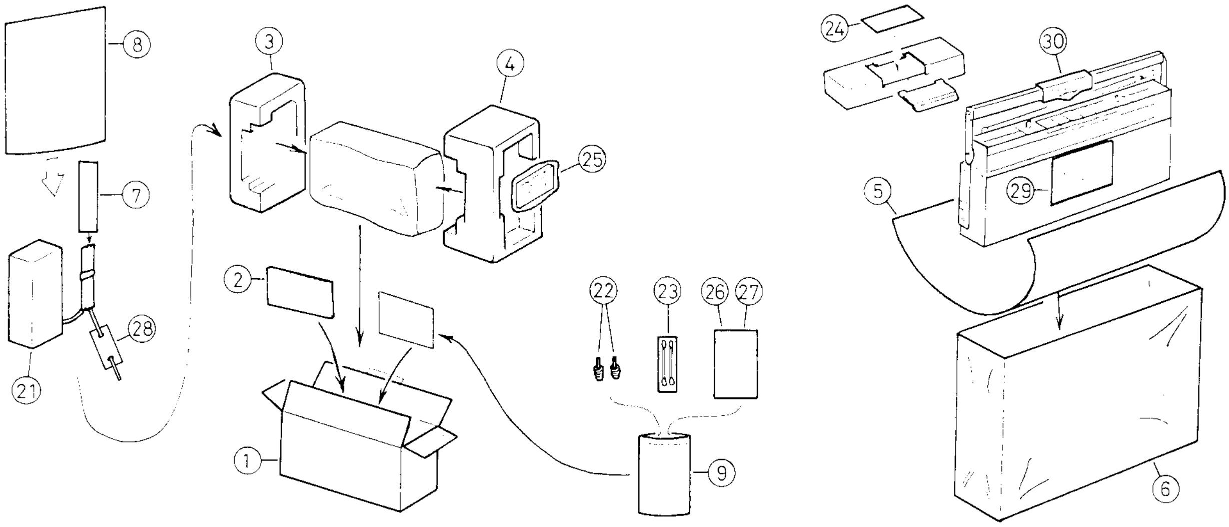


Fig. 48

Asterisked parts (*) show new parts.

Ref. No.	Parts No.	Parts Name	Description	Q'ty
1	*VPD5056-J11	Carton Box		1
2	*VPK4123-001	Spacer		1
3	*VPH1178-001	Side Cushion (L)		1
4	*VPH1186-001	〃 (R)		1
5	VHPJ055-026	Wrapping Paper		1
6	QPGA040-03005	Polyetylen Bag		1
7	QPGA010-01503	〃		1
8	QPGA015-03005	〃		1
9	QPGB024-03404	〃		1

Accessories (RC-S5LB)

Asterisked parts (*) show new parts.

Ref. No.	Parts No.	Parts Name	Description	Q'ty
21	*AA-S5LB	AC Adaptor Pack	⚠ 110/220/240V	1
22	V04056-1	Shorting Plug		2
23	VYA4001-00A	Head Cleaning Stick		2
24	*VYH4436-00B	Tape Ass'y	Tape, Caution Sheet & Bag	1 set
25	*VGT12S3-J03	Cassette Tape		1
26	*VNM0755-301	Instruction Book		1
27	BT20013B	Guarantee Certificate		1
28	QZL1002-003BS	Warning Label		1
29	*VNF0749-001	Feature Sticker	Glued on Cassette door	1
30	*VNF0750-001	〃	Wrapped arround handle	1

Memo

MODEL **R-S5L**

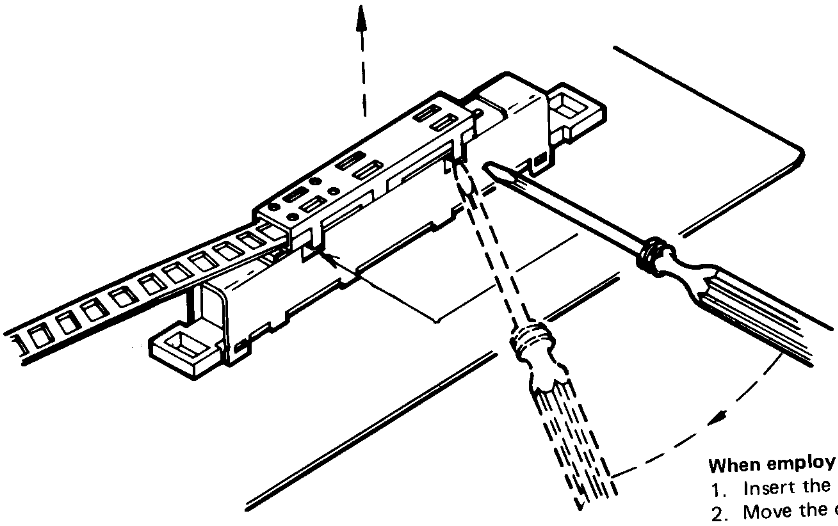
SERVICE MANUAL

SUPPLEMENT

Use this supplement together with original service manual.

How to remove/mount the flexible wire of remote switch employed for the R-S5L.

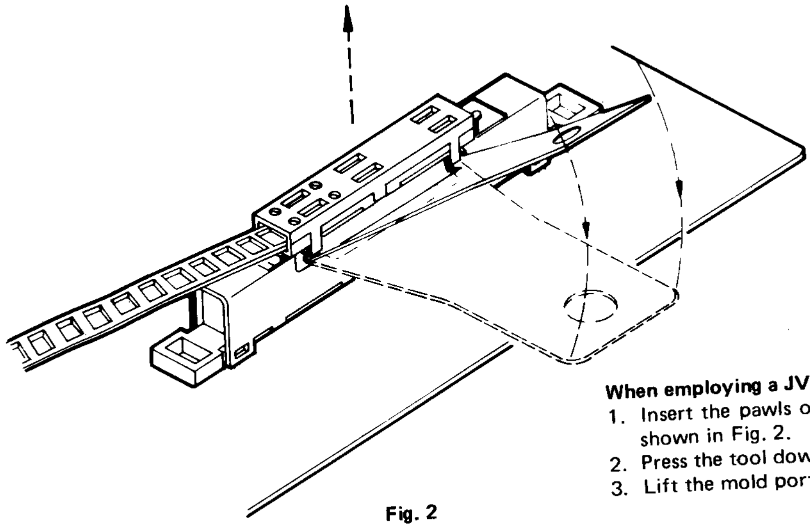
When removing the LW circuit board for servicing the models, exercise care with the following points:



When employing a knob driver.

1. Insert the tip of the driver into the openings in the switch.
2. Move the driver down so that the claws of the switch open.
3. After opening both claws, lift the mold portion.

Fig. 1



When employing a JVC standard tool.

1. Insert the pawls of the JVC tool into the openings in the switch as shown in Fig. 2.
2. Press the tool down to disengage the claws of the switch.
3. Lift the mold portion to remove it.

Fig. 2

When mounting the circuit board, align the claws and depress the mold portion.

Note: Be most careful when handling the flexible wire.
Do not bend it sharply or twist it.

No. 2481-B
R-S5L
MAY 1979